

FIGURE 1A

| Compound No. | Structure                                                     | Compound No. | Structure                                                         |
|--------------|---------------------------------------------------------------|--------------|-------------------------------------------------------------------|
| 100          | <br><chem>CNCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>        | 108          |                                                                   |
| 101          |                                                               | 109          |                                                                   |
| 102          |                                                               | 110          |                                                                   |
| 103          | <br><chem>OCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>         | 111          | <br><chem>O=C(C(C(=O)O)CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem> |
| 104          |                                                               | 112          |                                                                   |
| 105          |                                                               | 113          |                                                                   |
| 106          |                                                               | 114          |                                                                   |
| 107          | <br><chem>O=C(OCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)CBr</chem> | 115          | <br><chem>CC(C(=O)C=C1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)=O</chem>  |

FIGURE 1B

|     |                                                                       |     |                                                                     |
|-----|-----------------------------------------------------------------------|-----|---------------------------------------------------------------------|
| 116 | <br><chem>O=C(NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C=C</chem>         | 124 | <br><chem>O=C(C(F)(F)F)CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>   |
| 117 | <br><chem>O=C(NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C(C)=C</chem>      | 125 | <br><chem>O=C(NC(C)C1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C(C)=C</chem> |
| 118 | <br><chem>C=C(C(N)C)C1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C(C)=C</chem>  | 126 | <br><chem>COC(CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C=C</chem>        |
| 119 | <br><chem>O=C(NC(C)C1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C(C)=C</chem>   | 127 | <br><chem>OC(CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C=C</chem>         |
| 120 | <br><chem>O=C(OCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C=C</chem>         | 128 | <br><chem>O=C(F)CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>          |
| 121 | <br><chem>O=C(OCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C(C)=C</chem>      | 129 | <br><chem>O=C(Cl)CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>         |
| 122 | <br><chem>O=C(OCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C(C#N)=C</chem>    | 130 | <br><chem>O=C(Br)CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>         |
| 123 | <br><chem>O=C(NC(C)C1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C(C#N)=C</chem> | 131 | <br><chem>O=C(N1C=NC=C1)CC2=CC=C(N3N=NC(COC4OCCCC4)=C3)C=C2</chem>  |

FIGURE 1C

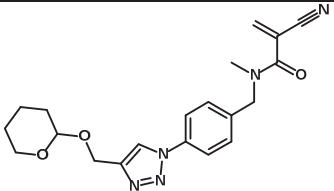
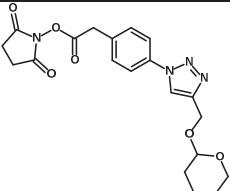
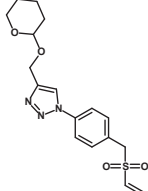
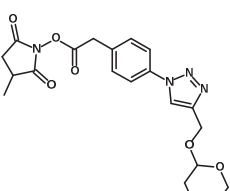
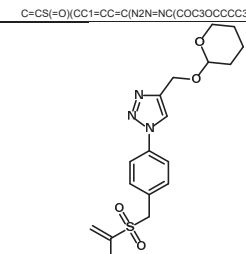
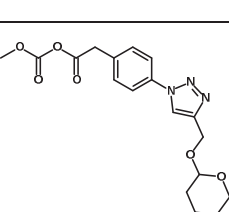
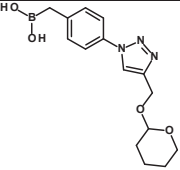
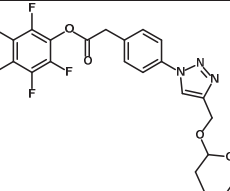
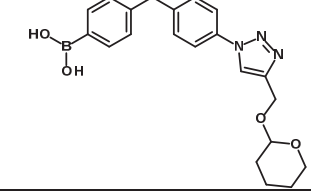
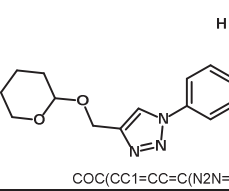
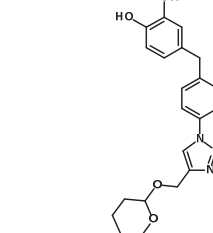
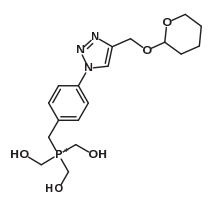
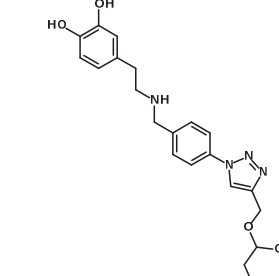
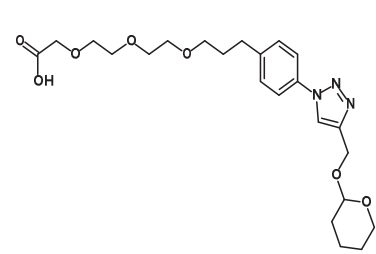
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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 132 |                                                                | 139 |                                                                  |
| 133 | <br><chem>C=CS(=O)CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1=O</chem> | 140 |                                                                  |
| 134 |                                                                | 141 | <br><chem>O=C(OC(OC)=O)CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem> |
| 135 | <br><chem>OB(O)CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>     | 142 |                                                                 |
| 136 |                                                              | 143 | <br><chem>COC(CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>        |
| 137 |                                                              | 144 |                                                                 |
| 138 |                                                              | 145 |                                                                 |

FIGURE 1D

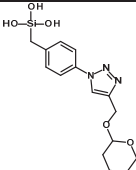
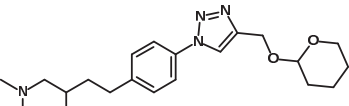
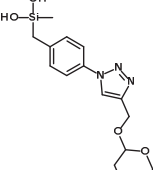
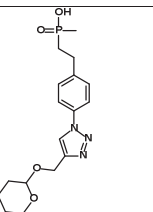
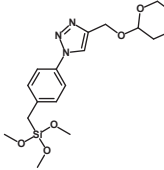
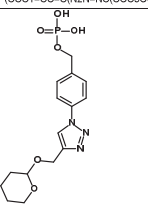
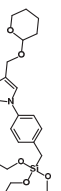
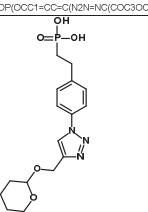
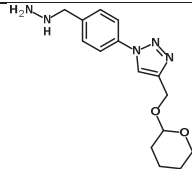
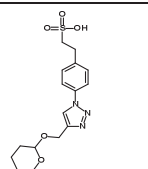
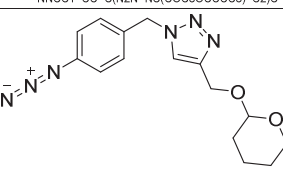
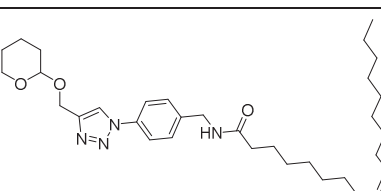
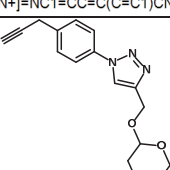
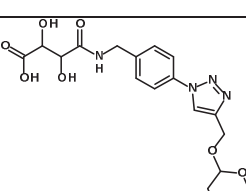
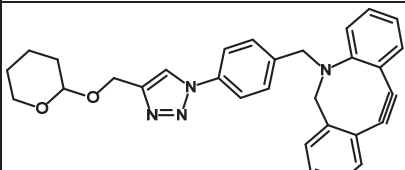
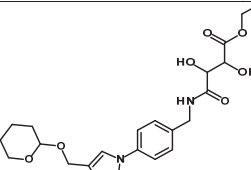
|     |                                                                                                                                                           |     |                                                                                                                                                      |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 146 | <br><chem>O[Si](CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)(O)O</chem>          | 154 | <br><chem>OC(CCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)(C)C</chem>      |
| 147 | <br><chem>O[Si](CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)(C)O</chem>          | 155 | <br><chem>OP(CCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)(C)=O</chem>     |
| 148 | <br><chem>CO[Si](CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)(OC)OC</chem>       | 156 | <br><chem>OP(CCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)(O)=O</chem>     |
| 149 |                                                                         | 157 | <br><chem>OP(CCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)(O)=O</chem>    |
| 150 | <br><chem>NNCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>                 | 158 | <br><chem>O=Si(CCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)(O)=O</chem> |
| 151 | <br><chem>[N-]=[N+]=NC1=CC=C(C(C=C1)CN2N=NC(COC3OCCCC3)=C2)C=C1</chem> | 159 |                                                                  |
| 152 | <br><chem>C#CCCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>               | 160 |                                                                  |
| 153 |                                                                        | 161 |                                                                  |

FIGURE 1E

|     |  |     |  |
|-----|--|-----|--|
| 162 |  | 169 |  |
| 163 |  | 170 |  |
| 164 |  | 171 |  |
| 165 |  | 172 |  |
| 166 |  | 173 |  |
| 167 |  | 174 |  |
| 168 |  | 175 |  |

FIGURE 1F

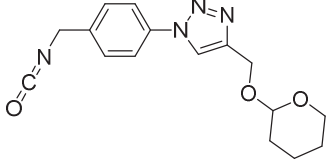
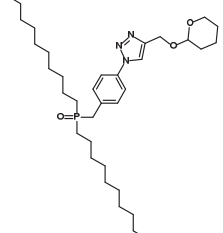
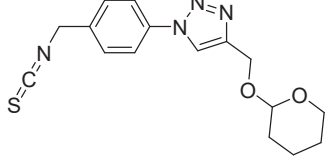
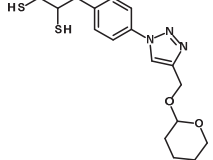
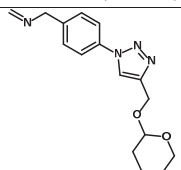
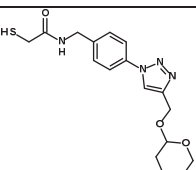
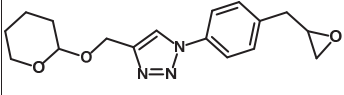
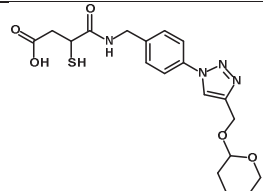
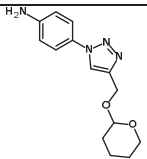
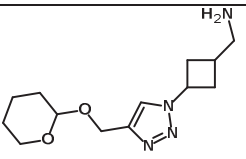
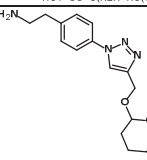
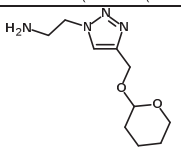
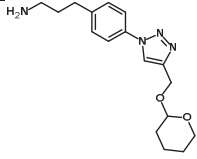
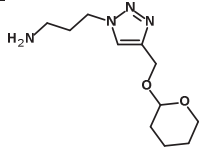
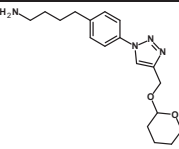
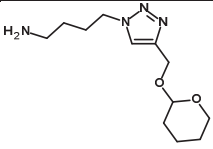
|     |                                                                                                                                                  |     |                                                                                                                                                |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------|
| 176 | <br><chem>O=C=NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>       | 184 |                                                             |
| 177 | <br><chem>S=C=NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>       | 185 | <br><chem>SCC(S)CC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>   |
| 178 | <br><chem>C=NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>         | 186 | <br><chem>O=C(NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)CS</chem> |
| 179 | <br><chem>C1(COC2OCCCC2)=CN(C3=CC=C(C(C4OC4)=O)C=C3)C=C1</chem> | 187 |                                                             |
| 180 | <br><chem>NC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>          | 188 | <br><chem>NCC1CC(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>         |
| 181 | <br><chem>NCCCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>       | 189 | <br><chem>NCCCN1N=NC(COC2OCCCC2)=C1</chem>                 |
| 182 | <br><chem>NCCCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>       | 190 | <br><chem>NCCCCN1N=NC(COC2OCCCC2)=C1</chem>                |
| 183 | <br><chem>NCCCCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>      | 191 | <br><chem>NCCCCCN1N=NC(COC2OCCCC2)=C1</chem>               |

FIGURE 1G

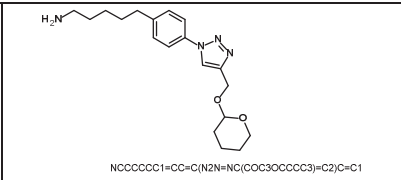
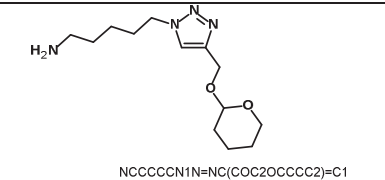
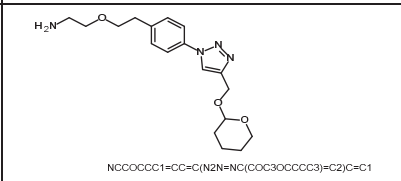
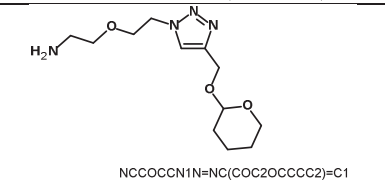
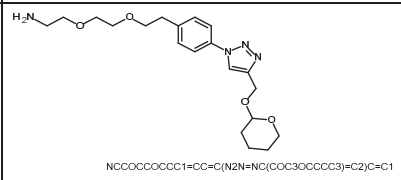
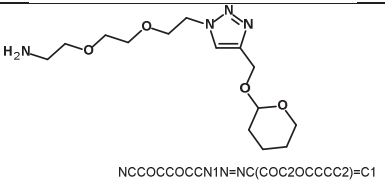
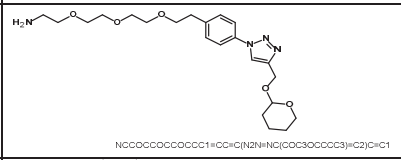
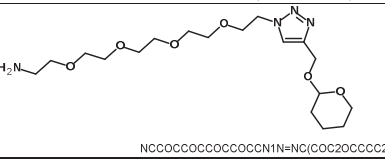
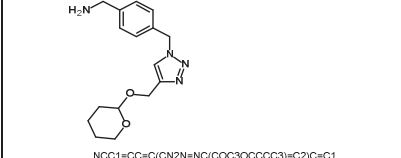
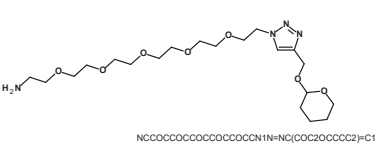
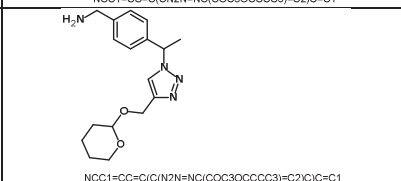
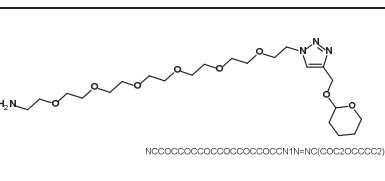
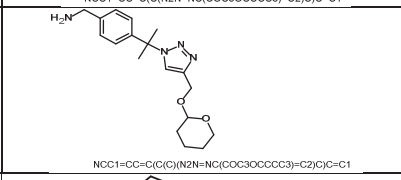
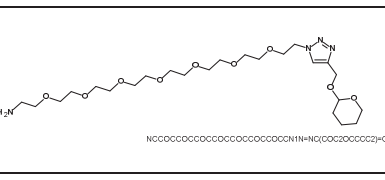
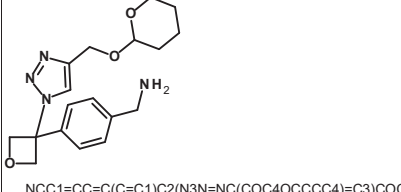
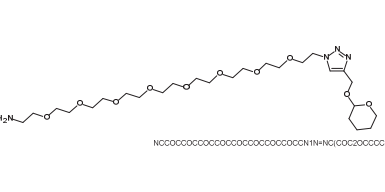
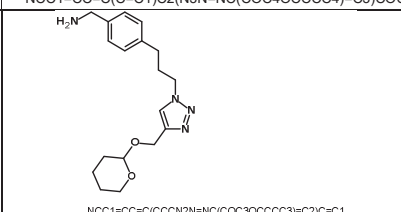
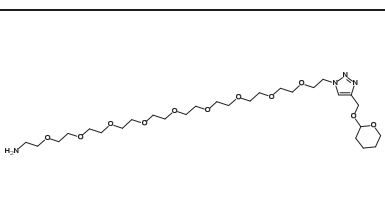
|     |                                                                                                                                                 |     |                                                                                                                                                             |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 192 | <br><chem>NCCCCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)O=C1</chem>       | 201 | <br><chem>NCCCCCN1N=NC(COC2OCCCC2)=C1</chem>                              |
| 193 | <br><chem>NCCCCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>       | 202 | <br><chem>NCCOCCN1N=NC(COC2OCCCC2)=C1</chem>                              |
| 194 | <br><chem>NCCCCCCCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)O=C1</chem>    | 203 | <br><chem>NCCOCCOCCN1N=NC(COC2OCCCC2)=C1</chem>                           |
| 195 | <br><chem>NCCCCCOCOCOC1=CC=C(N2N=NC(COC3OCCCC3)=C2)O=C1</chem> | 204 | <br><chem>NCCOCCOCCOCCOCCN1N=NC(COC2OCCCC2)=C1</chem>                     |
| 196 | <br><chem>NCC1=CC=C(CN2N=NC(COC3OCCCC3)=C2)O=C1</chem>        | 205 | <br><chem>NCCOCCOCCOCCOCCOCCOCCN1N=NC(COC2OCCCC2)=C1</chem>              |
| 197 | <br><chem>NCC1=CC=C(C(C)N2N=NC(COC3OCCCC3)=C2)O=C1</chem>    | 206 | <br><chem>NCCOCCOCCOCCOCCOCCOCCOCCN1N=NC(COC2OCCCC2)=C1</chem>          |
| 198 | <br><chem>NCC1=CC=C(C(C)N2N=NC(COC3OCCCC3)=C2)O=C1</chem>    | 207 | <br><chem>NCCOCCOCCOCCOCCOCCOCCOCCOCCN1N=NC(COC2OCCCC2)=C1</chem>       |
| 199 | <br><chem>NCC1=CC=C(C(C)N2N=NC(COC4OCCCC4)=C3)COC2</chem>    | 208 | <br><chem>NCCOCCOCCOCCOCCOCCOCCOCCOCCOCCN1N=NC(COC2OCCCC2)=C1</chem>    |
| 200 | <br><chem>NCC1=CC=C(C(CCN2N=NC(COC3OCCCC3)=C2)O=C1</chem>    | 209 | <br><chem>NCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCN1N=NC(COC2OCCCC2)=C1</chem> |

FIGURE 1H

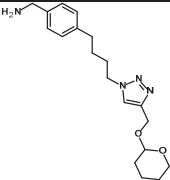
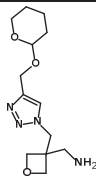
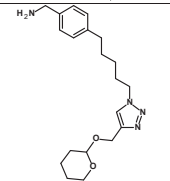
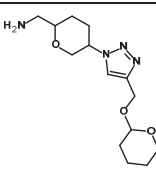
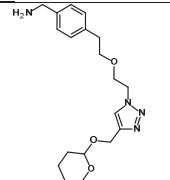
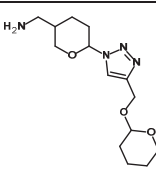
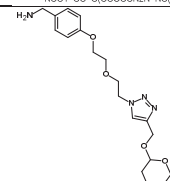
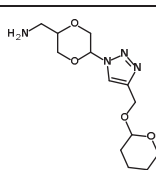
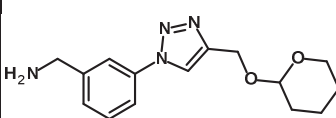
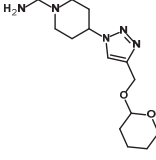
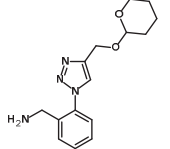
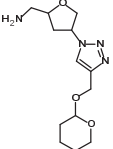
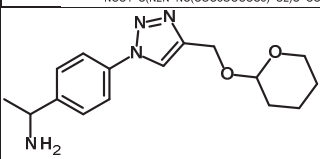
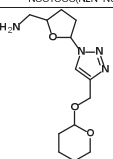
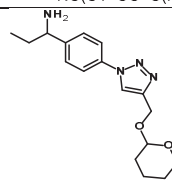
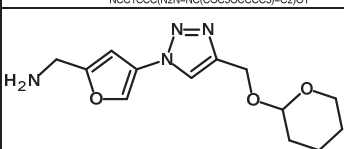
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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------|
| 210 | <br><chem>NCC1=CC=C(C(OC(CCN2N=NC(COC3OCCCC3)=C2)C=C1</chem> | 218 | <br><chem>NCC1(CN2N=NC(COC3OCCCC3)=C2)COC1</chem>   |
| 211 | <br><chem>NCC1=CC=C(C(OC(CCN2N=NC(COC3OCCCC3)=C2)C=C1</chem> | 219 | <br><chem>NCC1CCC(N2N=NC(COC3OCCCC3)=C2)OC1</chem>   |
| 212 | <br><chem>NCC1=CC=C(C(OC(CCN2N=NC(COC3OCCCC3)=C2)C=C1</chem> | 220 | <br><chem>NCC1CCC(N2N=NC(COC3OCCCC3)=C2)OC1</chem>   |
| 213 | <br><chem>NCC1=CC=C(C(OC(CCN2N=NC(COC3OCCCC3)=C2)C=C1</chem> | 221 | <br><chem>NCC1OCC(N2N=NC(COC3OCCCC3)=C2)OC1</chem>   |
| 214 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C</chem>               | 222 | <br><chem>NCN1CCC(N2N=NC(COC3OCCCC3)=C2)CC1</chem>  |
| 215 | <br><chem>NCC1=C(N2N=NC(COC3OCCCC3)=C2)C=CC=C1</chem>      | 223 | <br><chem>NCC1OCC(N2N=NC(COC3OCCCC3)=C2)C1</chem> |
| 216 | <br><chem>NC(C1=CC=C(N2N=NC(COC3OCCCC3)=C</chem>           | 224 | <br><chem>NCC1CCC(N2N=NC(COC3OCCCC3)=C2)O1</chem> |
| 217 | <br><chem>NC(C1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)CC</chem>  | 225 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C</chem>      |

FIGURE 1I

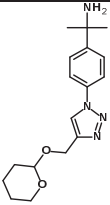
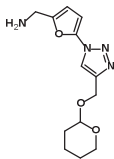
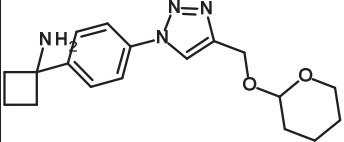
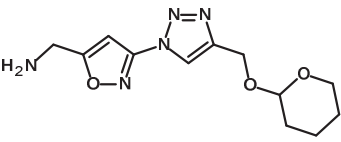
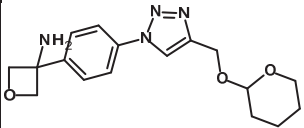
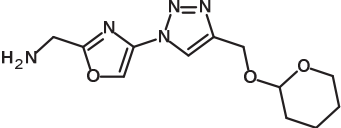
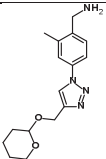
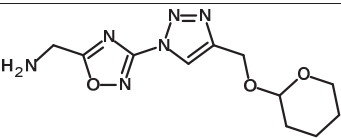
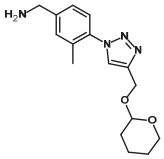
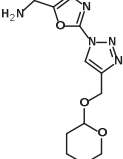
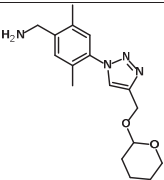
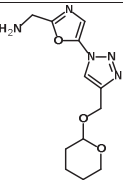
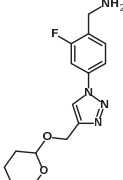
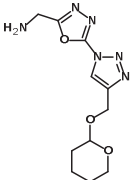
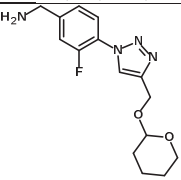
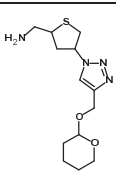
|     |                                                                                                                                                  |     |                                                                                                                                        |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------|
| 226 | <br><chem>NC(C)(C1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1)C</chem>     | 234 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)O1</chem>  |
| 227 | <br><chem>NC1(C2=CC=C(N3N=NC(COC4OCCCC4)=C3)C=C2)C4CCCC4</chem> | 235 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C2)O1</chem>    |
| 228 | <br><chem>NC1(C2=CC=C(N3N=NC(COC4OCCCC4)=C3)C=C2)C4CCCC4</chem> | 236 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C2)O1</chem>    |
| 229 | <br><chem>NCC(C=C(N1N=NC(COC2OCCCC2)=C1)C=C3)C3C</chem>         | 237 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C2)O1</chem>    |
| 230 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C(C)=C1</chem>       | 238 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C2)O1</chem>   |
| 231 | <br><chem>NCC1=CC(C)C=C(N2N=NC(COC3OCCCC3)=C2)C(C)=C1</chem>  | 239 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C2)O1</chem>  |
| 232 | <br><chem>NCC(C=C(N1N=NC(COC2OCCCC2)=C1)C=C3)C3F</chem>       | 240 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C2)O1</chem>  |
| 233 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C(F)=C1</chem>      | 241 | <br><chem>NCC1SCC(N2N=NC(COC3OCCCC3)=C2)O1</chem> |

FIGURE 1J

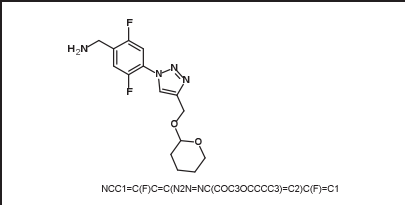
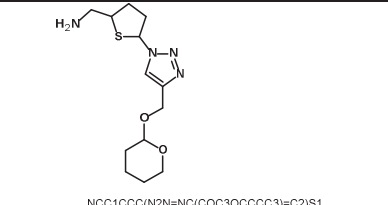
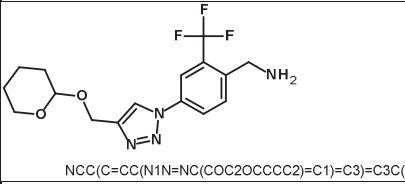
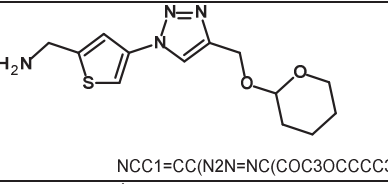
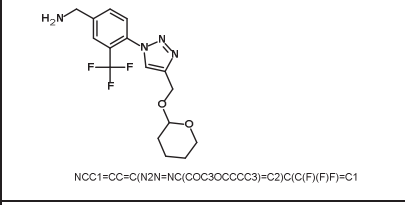
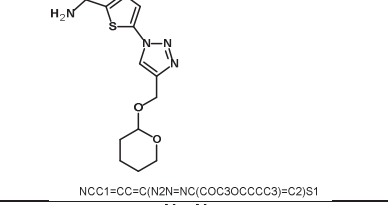
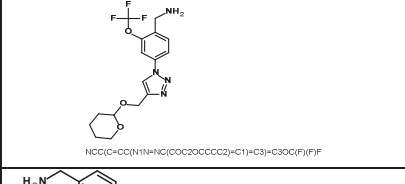
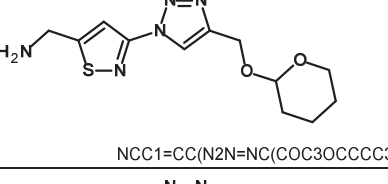
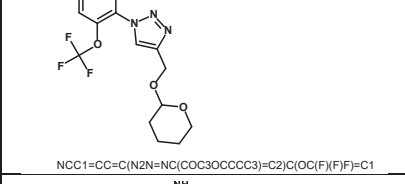
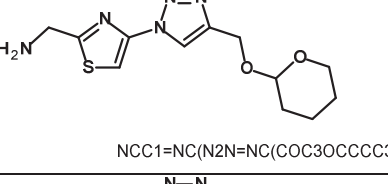
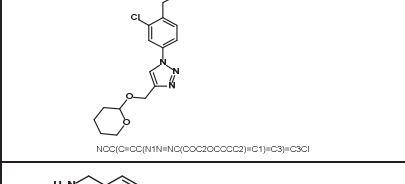
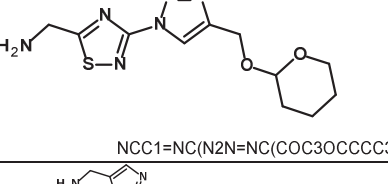
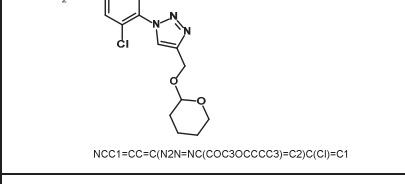
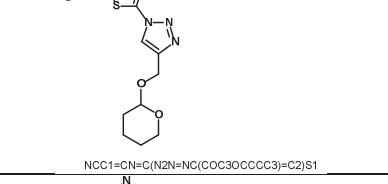
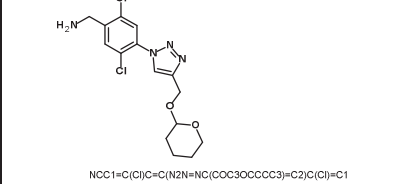
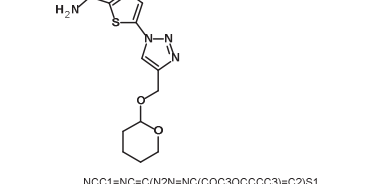
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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------|
| 242 | <br><chem>NCC1=C(F)C=C(N2N=NC(COC3OCCCC3)=C2)C(F)=C1</chem>       | 250 | <br><chem>NCC1CCC(N2N=NC(COC3OCCCC3)=C2)S1</chem>     |
| 243 | <br><chem>NCC(C=CC(N1N=NC(COC2OCCCC2)=C1)=C3)=C3C(F)(F)F</chem>   | 251 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C2)S1</chem>     |
| 244 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C(C(F)(F)F)=C1</chem>   | 252 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)S1</chem>   |
| 245 | <br><chem>NCC(C=CC(N1N=NC(COC2OCCCC2)=C1)=C3)=C3C(F)(F)F</chem>   | 253 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C2)S1</chem>     |
| 246 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C(OC(F)(F)F)=C1</chem> | 254 | <br><chem>NCC1=NC(N2N=NC(COC3OCCCC3)=C2)S1</chem>    |
| 247 | <br><chem>NCC(C=CC(N1N=NC(COC2OCCCC2)=C1)=C3)=C3Cl</chem>       | 255 | <br><chem>NCC1=NC(N2N=NC(COC3OCCCC3)=C2)S1</chem>   |
| 248 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C(Cl)=C1</chem>       | 256 | <br><chem>NCC1=CN=C(N2N=NC(COC3OCCCC3)=C2)S1</chem> |
| 249 | <br><chem>NCC1=C(Cl)C=C(N2N=NC(COC3OCCCC3)=C2)C(Cl)=C1</chem>   | 257 | <br><chem>NCC1=NC=C(N2N=NC(COC3OCCCC3)=C2)S1</chem> |

FIGURE 1K

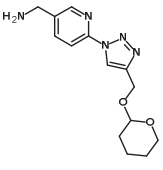
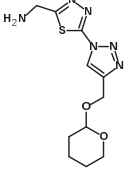
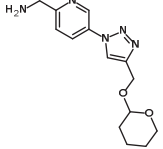
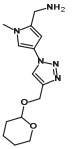
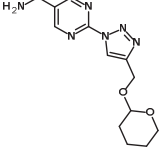
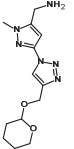
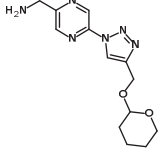
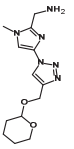
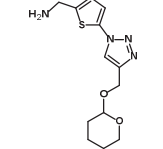
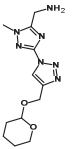
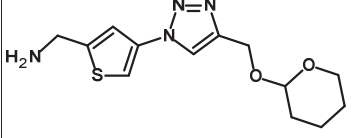
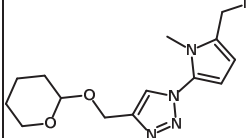
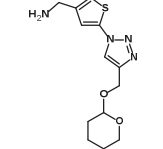
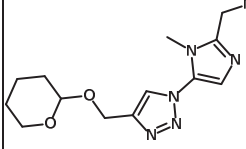
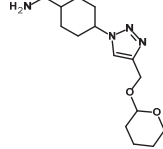
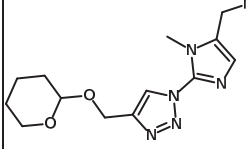
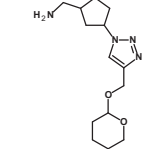
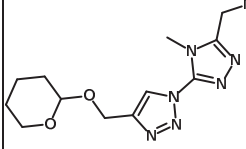
|     |                                                                                                                                           |     |                                                                                                                                          |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------|
| 258 | <br><chem>NCC1=CN=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>    | 267 | <br><chem>NCC1=NN=C(N2N=NC(COC3OCCCC3)=C2)S1</chem>    |
| 259 | <br><chem>NCC1=NC=C(N2N=NC(COC3OCCCC3)=C2)N=C1</chem>    | 268 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C2)=CN1C</chem>  |
| 260 | <br><chem>NCC1=CN=C(N2N=NC(COC3OCCCC3)=C2)N=C1</chem>    | 269 | <br><chem>NCC1=CC(N2N=NC(COC3OCCCC3)=C2)=N1C</chem>   |
| 261 | <br><chem>NCC1=NC=C(N2N=NC(COC3OCCCC3)=C2)N=C1</chem>    | 270 | <br><chem>NCC1=NC(N2N=NC(COC3OCCCC3)=C2)=CN1C</chem>  |
| 262 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)S1</chem>     | 271 | <br><chem>NCC1=NC(N2N=NC(COC3OCCCC3)=C2)=N1C</chem>  |
| 263 | <br><chem>NCC1=CC(C(N2N=NC(COC3OCCCC3)=C2))=CS1</chem> | 272 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)N1C</chem> |
| 264 | <br><chem>NCC1=CSC(N2N=NC(COC3OCCCC3)=C2)C1</chem>     | 273 | <br><chem>NCC1=NC=C(N2N=NC(COC3OCCCC3)=C2)N1C</chem> |
| 265 | <br><chem>NCC1CCC(N2N=NC(COC3OCCCC3)=C2)CC1</chem>     | 274 | <br><chem>NCC1=CN=C(N2N=NC(COC3OCCCC3)=C2)N1C</chem> |
| 266 | <br><chem>NCC1CCC(N2N=NC(COC3OCCCC3)=C2)C1</chem>      | 275 | <br><chem>NCC1=NN=C(N2N=NC(COC3OCCCC3)=C2)N1C</chem> |

FIGURE 1L

Table 1c:

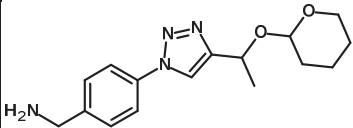
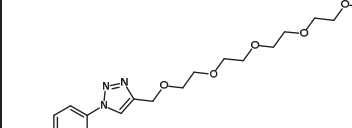
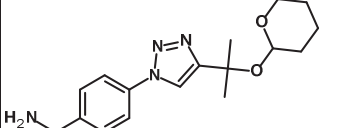
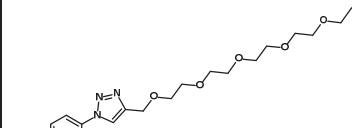
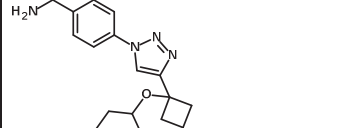
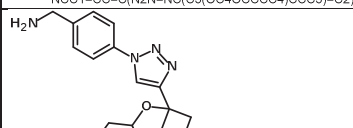
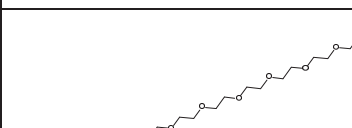
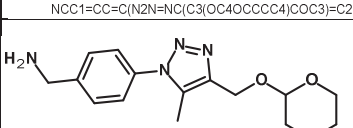
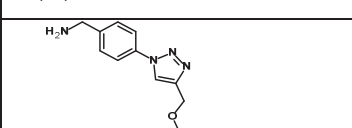
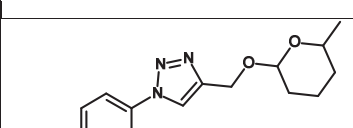
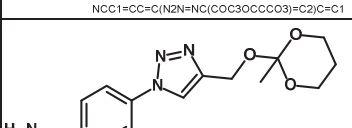
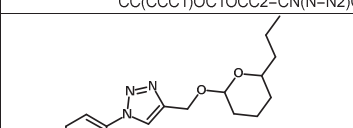
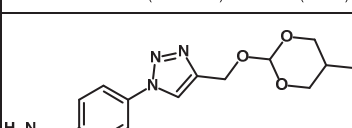
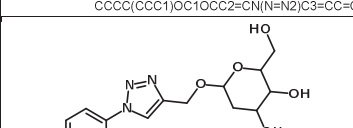
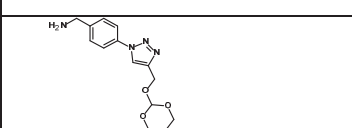
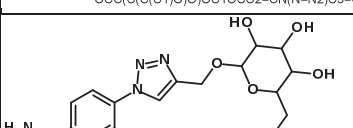
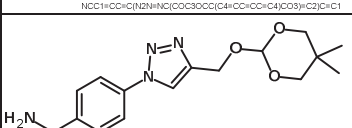
|     |                                                                                                                                               |     |                                                                                                                                                   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 276 | <br><chem>CC(OC1OCCCC1)C2=CN(N=N2)C3=C</chem>                | 285 | <br><chem>COCOCOCOCOCOCOC1=CN(N=N1)C2=CC=C(C=C2)C3=C</chem>     |
| 277 | <br><chem>CC(C)(OC1OCCCC1)C2=CN(N=N2)C3=CC</chem>            | 286 | <br><chem>COCOCOCOCOCOCOCOC1=CN(N=N1)C2=CC=C(C=C2)C3=C</chem>   |
| 278 | <br><chem>NCC1=CC=C(N2N=NC(C3(OC4OCCCC4)CCC3)=C2)C=C1</chem> | 287 | <br><chem>COCOCOCOCOCOCOCOCOC1=CN(N=N1)C2=CC=C(C=C2)C3=C</chem> |
| 279 | <br><chem>NCC1=CC=C(N2N=NC(C3(OC4OCCCC4)COC3)=C2)C=C1</chem> | 288 | <br><chem>NCC1=CC=C(N2N=NC(C3(OC4OCCCC4)COC3)=C2)C=C1</chem>    |
| 280 | <br><chem>CC(N(N=N1)C2=CC=C(C=C2)CN)=C1CO</chem>            | 289 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>          |
| 281 | <br><chem>CC(CCC1)OC1OCC2=CN(N=N2)C3=CC=C</chem>           | 290 | <br><chem>CC1(OCCC1)OCC2=CN(N=N2)C3=CC=C</chem>               |
| 282 | <br><chem>CCCC(CCC1)OC1OCC2=CN(N=N2)C3=CC=C(C=C3)C</chem>  | 291 | <br><chem>CC(CO1)COC1OCC2=CN(N=N2)C3=CC=C</chem>              |
| 283 | <br><chem>OCC(C(C1)O)OC1OCC2=CN(N=N2)C3=CC=C(C=C3)C</chem> | 292 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCCCC3)=C2)C=C1</chem>         |
| 284 | <br><chem>OC(C(C(C(O1)CO)O)O)C1OCC2=CN(N=N2)C3=CC=C</chem> | 293 | <br><chem>CC(C)(CO1)COC1OCC2=CN(N=N2)C3=CC=C</chem>           |

FIGURE 1M

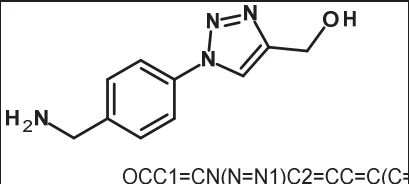
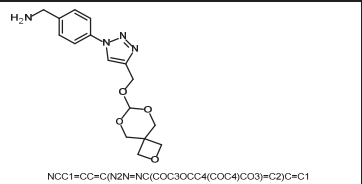
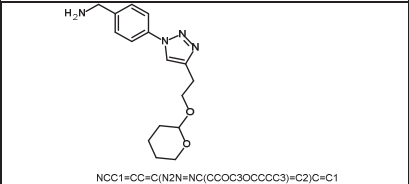
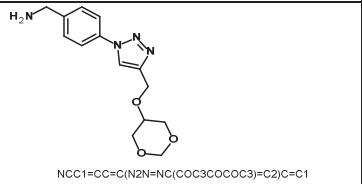
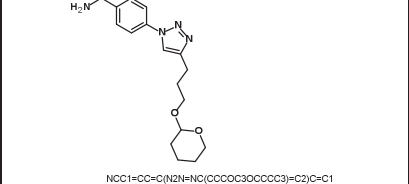
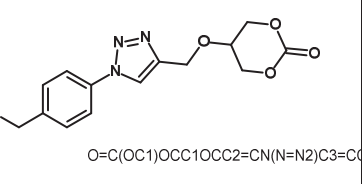
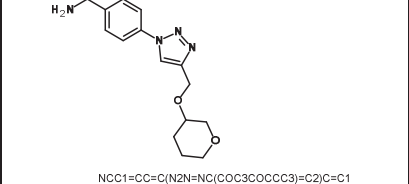
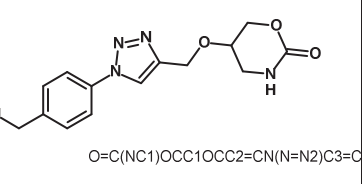
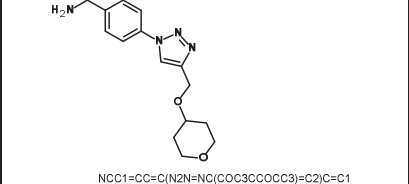
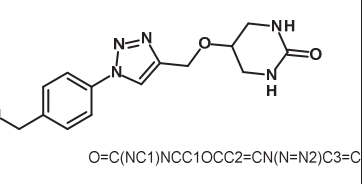
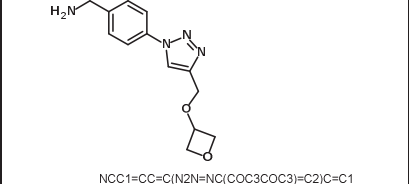
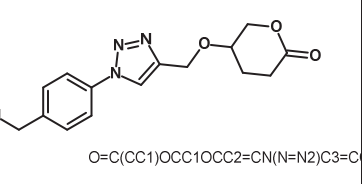
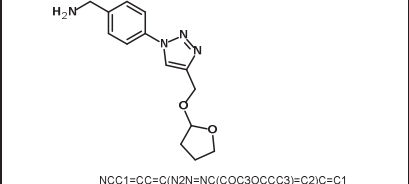
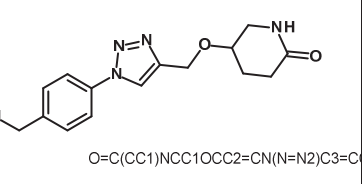
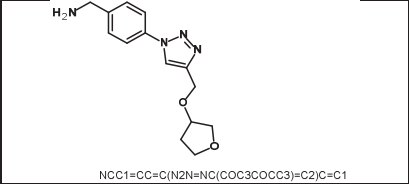
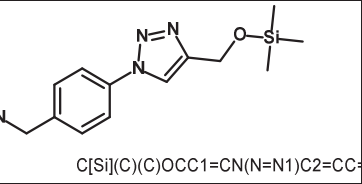
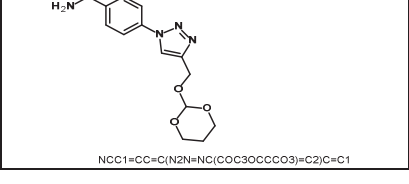
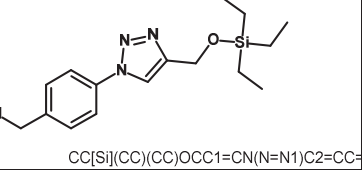
|     |                                                                                                                                                |     |                                                                                                                                                |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------|
| 294 | <br><chem>OCC1=CN(N=N1)C2=CC=C(C=C2)C3=CC=C(C=C3)CN</chem>    | 303 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCC4(COC4)C3)=C2)C=C1</chem>  |
| 295 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCC4(COC4)C3)=C2)C=C1</chem>   | 304 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCC4(COC4)C3)=C2)C=C1</chem>  |
| 296 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCC4(COC4)C3)=C2)C=C1</chem>   | 305 | <br><chem>O=C(OC1)OCC1OCC2=CN(N=N2)C3=CC=C(C=C3)N</chem>     |
| 297 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCC4(COC4)C3)=C2)C=C1</chem>   | 306 | <br><chem>O=C(NC1)OCC1OCC2=CN(N=N2)C3=CC=C(C=C3)N</chem>     |
| 298 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCC4(COC4)C3)=C2)C=C1</chem>  | 307 | <br><chem>O=C(NC1)NCC1OCC2=CN(N=N2)C3=CC=C(C=C3)N</chem>    |
| 299 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCC4(COC4)C3)=C2)C=C1</chem> | 308 | <br><chem>O=C(CC1)OCC1OCC2=CN(N=N2)C3=CC=C(C=C3)N</chem>   |
| 300 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCC4(COC4)C3)=C2)C=C1</chem> | 309 | <br><chem>O=C(CC1)NCC1OCC2=CN(N=N2)C3=CC=C(C=C3)N</chem>   |
| 301 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCC4(COC4)C3)=C2)C=C1</chem> | 310 | <br><chem>C[Si](C)(C)OCC1=CN(N=N1)C2=CC=C(C=C2)N</chem>    |
| 302 | <br><chem>NCC1=CC=C(N2N=NC(COC3OCC4(COC4)C3)=C2)C=C1</chem> | 311 | <br><chem>CC[Si](CC)(CC)OCC1=CN(N=N1)C2=CC=C(C=C2)N</chem> |

FIGURE 1N

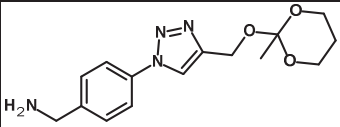
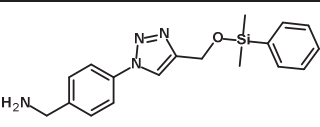
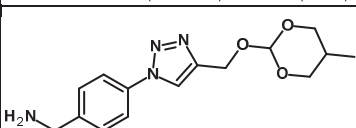
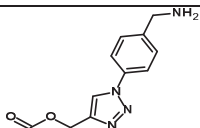
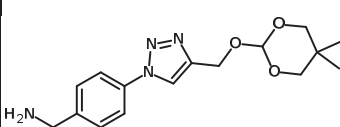
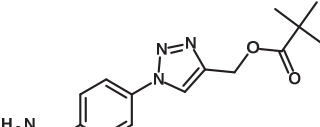
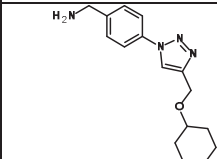
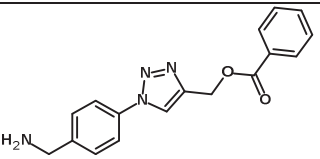
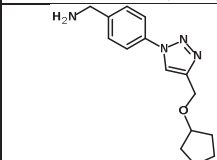
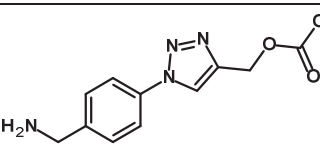
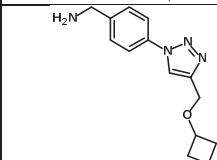
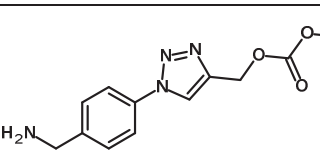
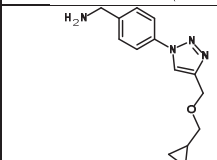
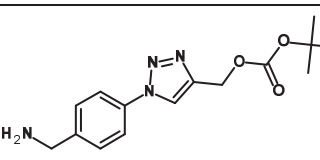
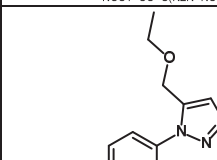
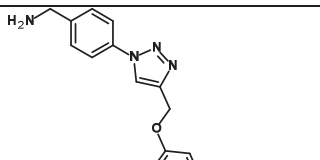
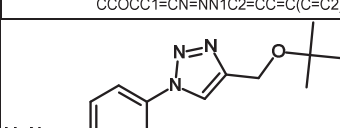
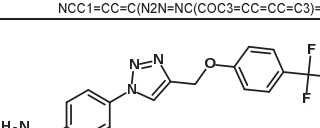
|     |                                                                                                                                         |     |                                                                                                                                                |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------|
| 312 | <br><chem>CC1(OCCC1)OCC2=CN(N=N2)C3=CC=C</chem>        | 321 | <br><chem>C[Si](C)(C)C1=CC=CC=C1OCC2=CN(N=N2)C3=CC=C</chem>  |
| 313 | <br><chem>CC(CO1)COC1OCC2=CN(N=N2)C3=CC=C</chem>       | 322 | <br><chem>CC(OCC1=CN(N=N1)C2=CC=C(C(=C2)CN)=O</chem>         |
| 314 | <br><chem>CC(C)(CO1)COC1OCC2=CN(N=N2)C3=CC=C</chem>    | 323 | <br><chem>O=C(C(C)(C)C)OCC1=CN(N=N1)C2=CC=C</chem>           |
| 315 | <br><chem>NCC1=CC=C(N2N=NC(COC3CCCCC3)=C2)C=C1</chem>  | 324 | <br><chem>O=C(C1=CC=CC=C1)OCC2=CN(N=N2)C3=CC=C</chem>        |
| 316 | <br><chem>NCC1=CC=C(N2N=NC(COC3CCCC3)=C2)C=C1</chem>  | 325 | <br><chem>O=C(OC)OCC1=CN(N=N1)C2=CC=C</chem>                |
| 317 | <br><chem>NCC1=CC=C(N2N=NC(COC3CCCC3)=C2)C=C1</chem> | 326 | <br><chem>O=C(OCC)OCC1=CN(N=N1)C2=CC=C</chem>              |
| 318 | <br><chem>NCC1=CC=C(N2N=NC(COCC3CC3)=C2)C=C1</chem>  | 327 | <br><chem>O=C(OC(C)(C)C)OCC1=CN(N=N1)C2=CC=C</chem>        |
| 319 | <br><chem>CCOCC1=CN=NN1C2=CC=C(C(=C2)CN</chem>       | 328 | <br><chem>NCC1=CC=C(N2N=NC(COC3=CC=CC=C3)=C2)C=C1</chem>   |
| 320 | <br><chem>CC(C)(C)OCC1=CN(N=N1)C2=CC=C</chem>        | 329 | <br><chem>FC(F)(F)C(C=C1)=CC=C1OCC2=CN(N=N2)C3=CC=C</chem> |

FIGURE 10

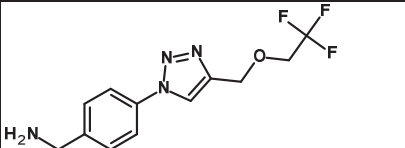
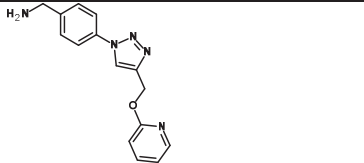
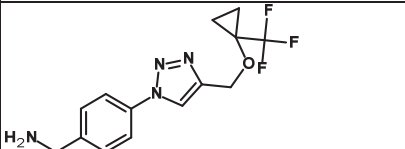
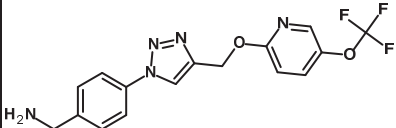
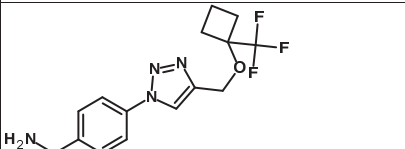
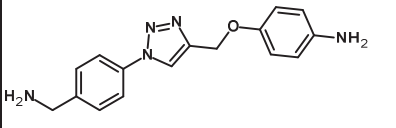
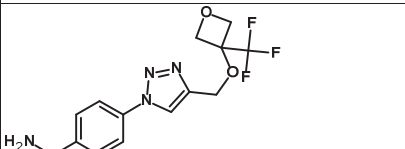
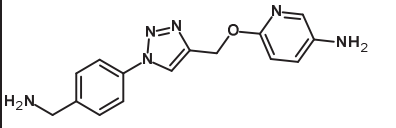
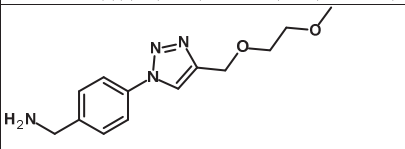
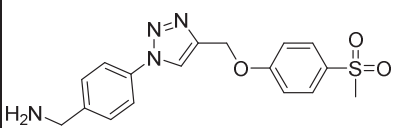
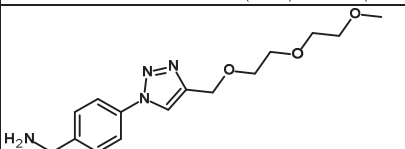
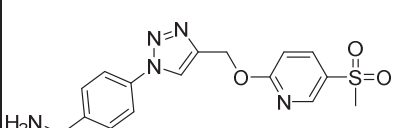
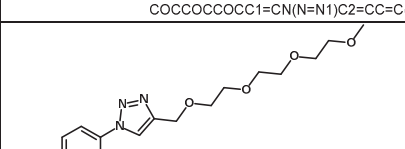
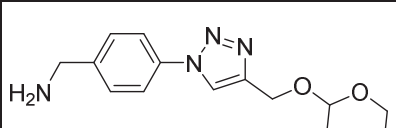
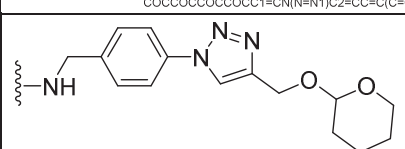
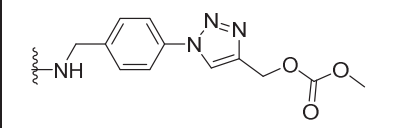
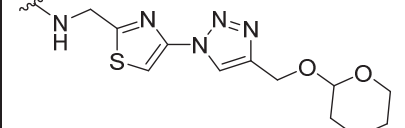
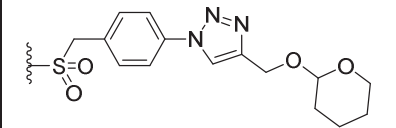
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|-----|------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 330 | <br><chem>FC(F)(F)COCC1=CN(N=N1)C2=CC=C(C=C2)CN</chem>        | 339 | <br><chem>NCC1=CC=C(C(N2N=NC(COC3=NC=CC=C3)=C2)C=C1</chem>               |
| 331 | <br><chem>FC(F)(F)C1(CC1)OCC2=CN(N=N2)C3=CC=C(C=C3)CN</chem>  | 340 | <br><chem>NCC1=CC=C(C(N2N=NC(COC3=NC=CC=C3)=C2)C=C1</chem>               |
| 332 | <br><chem>FC(F)(F)C1(CCC1)OCC2=CN(N=N2)C3=CC=C(C=C3)CN</chem> | 341 | <br><chem>NC(C=C1)=CC=C1OCC2=CN(N=N2)C3=CC=C(C=C3)CN</chem>              |
| 333 | <br><chem>FC(F)(F)C1(COC1)OCC2=CN(N=N2)C3=CC=C(C=C3)CN</chem> | 342 | <br><chem>NC(C=C1)=CN=C1OCC2=CN(N=N2)C3=CC=C(C=C3)CN</chem>              |
| 334 | <br><chem>COCCOCC1=CN(N=N1)C2=CC=C(C=C2)CN</chem>            | 343 | <br><chem>NCC1=CC=C(C(N2N=NC(COC3=CC=C(C=C3)S(=O)(=O)C)C=C2)C=C1</chem> |
| 335 | <br><chem>COCCOCCOCC1=CN(N=N1)C2=CC=C(C=C2)CN</chem>        | 344 | <br><chem>NCC1=CC=C(C(N2N=NC(COC3=NC=CC=C3)S(=O)(=O)C)C=C2)C=C1</chem> |
| 336 | <br><chem>COCCOCCOCCOCC1=CN(N=N1)C2=CC=C(C=C2)CN</chem>     | 345 | <br><chem>NCC1=CC=C(C(N2N=NC(COC3=CC=CC=C3)C=C2)C=C1</chem>            |
| 337 | <br><chem>NCC1=CC=C(C(N2N=NC(COC3=CC=CC=C3)C=C2)C=C1</chem> | 346 | <br><chem>NCC1=CC=C(C(N2N=NC(COC3=CC=CC=C3)C=C2)C=C1</chem>            |
| 338 | <br><chem>NCC1=CC=C(C(N2N=NC(COC3=CC=CC=C3)C=C2)C=C1</chem> | 347 | <br><chem>NCC1=CC=C(C(N2N=NC(COC3=CC=CC=C3)C=C2)C=C1</chem>            |

FIGURE 1P

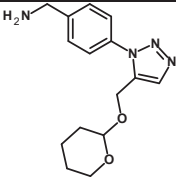
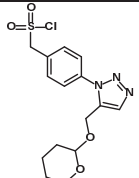
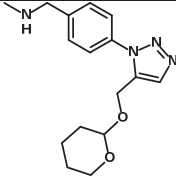
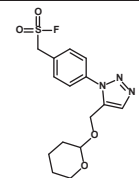
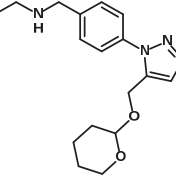
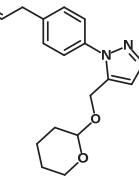
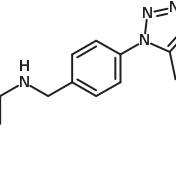
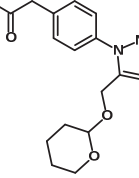
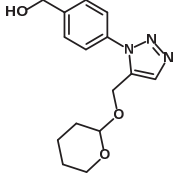
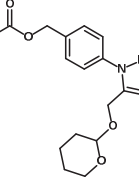
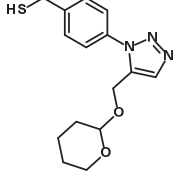
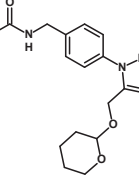
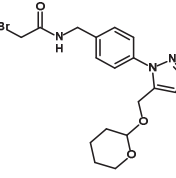
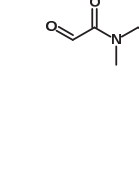
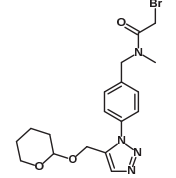
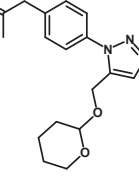
|     |                                                                                                                                                |     |                                                                                                                                                      |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 348 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>           | 356 | <br><chem>O=S(=O)(Cl)CC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>      |
| 349 | <br><chem>CNCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>          | 357 | <br><chem>O=S(=O)(F)CC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>       |
| 350 | <br><chem>CCNCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>         | 358 | <br><chem>[H]C(CC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)=O</chem>         |
| 351 | <br><chem>CC(NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>        | 359 | <br><chem>[H]C(CC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)=O</chem>         |
| 352 | <br><chem>OCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>         | 360 | <br><chem>O=C(OCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)C([H])=O</chem> |
| 353 | <br><chem>SCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>         | 361 | <br><chem>O=C(NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)C([H])=O</chem> |
| 354 | <br><chem>O=C(NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)CBr</chem> | 362 | <br><chem>O=C(NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)C([H])=O</chem> |
| 355 | <br><chem>BrCC(N)C1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>    | 363 | <br><chem>CC(CC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)=O</chem>         |

FIGURE 1Q

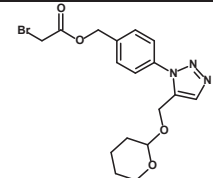
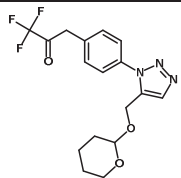
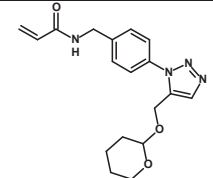
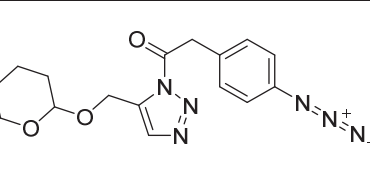
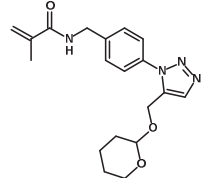
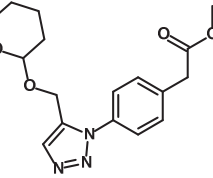
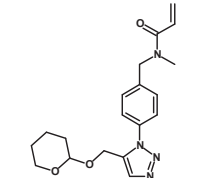
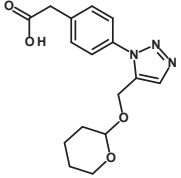
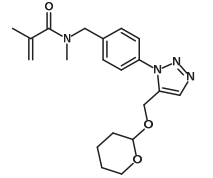
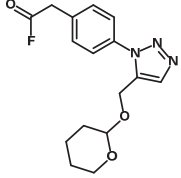
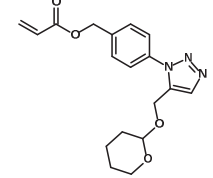
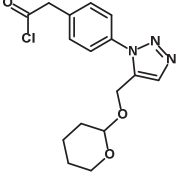
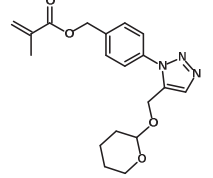
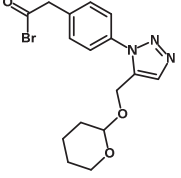
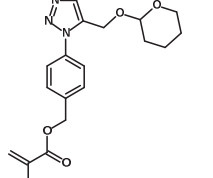
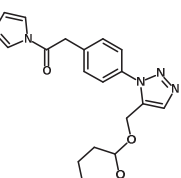
|     |                                                                                                                                                       |     |                                                                                                                                                        |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 364 | <br><chem>O=C(OCC1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)CBr</chem>        | 372 |                                                                      |
| 365 | <br><chem>O=C(NCC1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)C=C</chem>        | 373 |                                                                      |
| 366 |                                                                      | 374 | <br><chem>COC(CC1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)C=O</chem>         |
| 367 | <br><chem>C=CC(N(C)C)C1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)C=O</chem>   | 375 | <br><chem>OC(CC1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)C=O</chem>          |
| 368 | <br><chem>CN(C(C)C)C1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)C=O</chem>   | 376 | <br><chem>O=C(F)CC1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)C=C</chem>     |
| 369 | <br><chem>O=C(OCC1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)C=C</chem>      | 377 | <br><chem>O=C(Cl)CC1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)C=C</chem>    |
| 370 | <br><chem>O=C(OCC1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)C(C)C=C</chem>  | 378 | <br><chem>O=C(Br)CC1=CC=C(C(N2N=NC=C2COC3OCCCC3)C=C1)C=C</chem>    |
| 371 | <br><chem>O=C(N1C=NC=C1)CC2=CC=C(C(N3N=NC=C3COC4OCCCC4)C=C2</chem> | 379 | <br><chem>O=C(N1C=NC=C1)CC2=CC=C(C(N3N=NC=C3COC4OCCCC4)C=C2</chem> |

FIGURE 1R

|     |                                                                            |     |  |
|-----|----------------------------------------------------------------------------|-----|--|
| 380 | <br><chem>O=C(NC(=O)C=C(C(=O)N2C=CC(=O)C(CCC3)C=C1)C(C#N)=O</chem>         | 387 |  |
| 381 | <br><chem>O=C(NC(=O)C=C(C(=O)N2C=CC(=O)C(CCC3)C=C1)C(C#N)=O</chem>         | 388 |  |
| 382 | <br><chem>C=C(S(=O)(=O)C(=O)C=C(C(=O)N2C=CC(=O)C(CCC3)C=C1)C(C#N)=O</chem> | 389 |  |
| 383 | <br><chem>CC(S(=O)(=O)C(=O)C=C(C(=O)N2C=CC(=O)C(CCC3)C=C1)C(C#N)=O</chem>  | 390 |  |
| 384 | <br><chem>OB(O)C(=O)C=C(C(=O)N2C=CC(=O)C(CCC3)C=C1)C(C#N)=O</chem>         | 391 |  |
| 385 | <br><chem>OC(=O)C(=O)C=C(C(=O)N2C=CC(=O)C(CCC3)C=C1)C(C#N)=O</chem>        | 392 |  |
| 386 | <br><chem>OC(=O)C(=O)C=C(C(=O)N2C=CC(=O)C(CCC3)C=C1)C(C#N)=O</chem>        | 393 |  |

FIGURE 1S

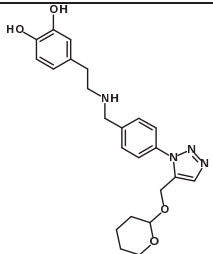
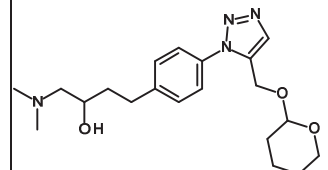
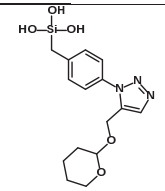
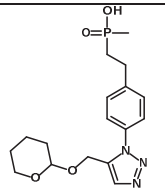
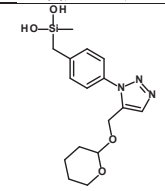
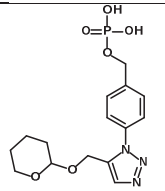
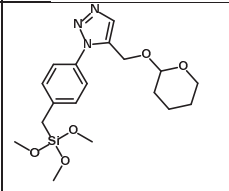
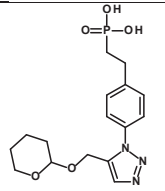
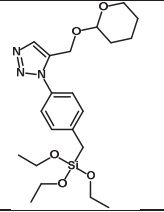
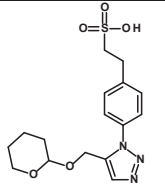
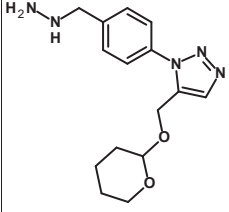
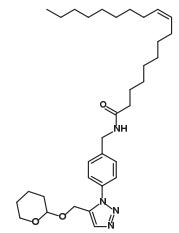
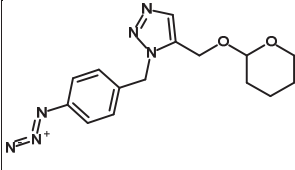
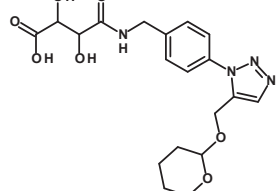
|     |                                                                                                                                                       |     |                                                                                                                                                      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 394 |                                                                      | 401 | <br><chem>OC(CCC1=CC=C(C(N2N=NC=C2COC3OCCCC3))C=C1)</chem>         |
| 395 | <br><chem>O[Si](CC1=CC=C(C(N2N=NC=C2COC3OCCCC3))C=C1)(O)O</chem>     | 402 | <br><chem>OP(CCC1=CC=C(C(N2N=NC=C2COC3OCCCC3))C=C1)(O)=O</chem>    |
| 396 | <br><chem>O[Si](CC1=CC=C(C(N2N=NC=C2COC3OCCCC3))C=C1)(O)O</chem>     | 403 | <br><chem>OP(OCC1=CC=C(C(N2N=NC=C2COC3OCCCC3))C=C1)(O)=O</chem>    |
| 397 | <br><chem>CO[Si](CC1=CC=C(C(N2N=NC=C2COC3OCCCC3))C=C1)(OC)OC</chem> | 404 | <br><chem>OP(CCC1=CC=C(C(N2N=NC=C2COC3OCCCC3))C=C1)(O)=O</chem>   |
| 398 |                                                                    | 405 | <br><chem>O=S(CCC1=CC=C(C(N2N=NC=C2COC3OCCCC3))C=C1)(O)=O</chem> |
| 399 | <br><chem>NNCC1=CC=C(C(N2N=NC=C2COC3OCCCC3))C=C1</chem>            | 406 |                                                                 |
| 400 | <br><chem>[N-]=[N+]=NC1=CC=C(C(C=C1)CN2N=NC=C2COC3OCCCC3)</chem>   | 407 |                                                                  |

FIGURE 1T

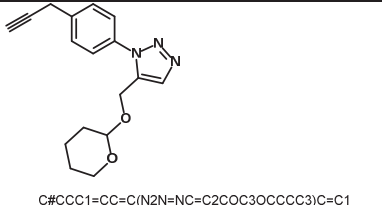
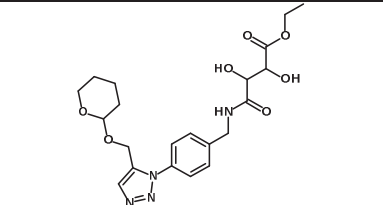
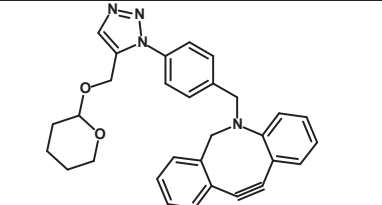
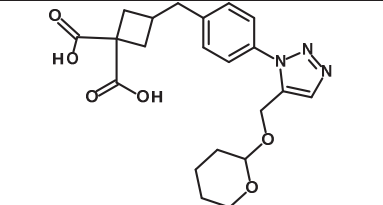
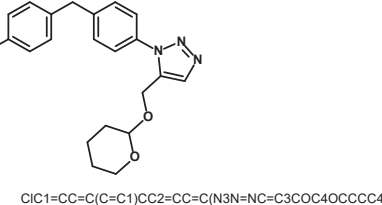
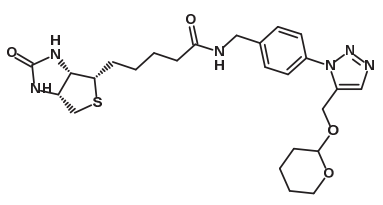
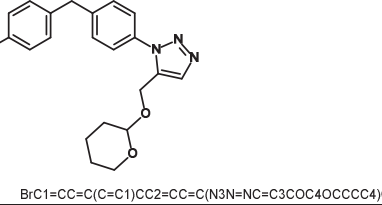
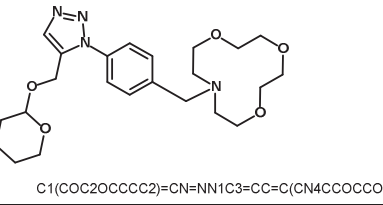
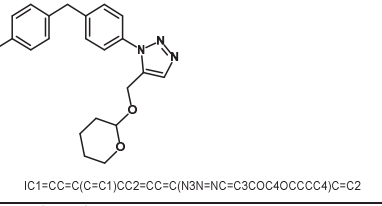
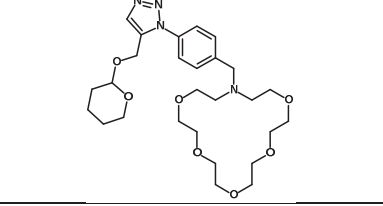
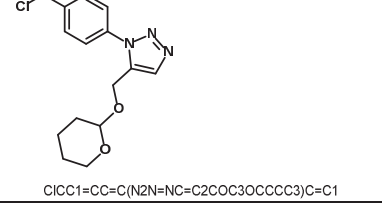
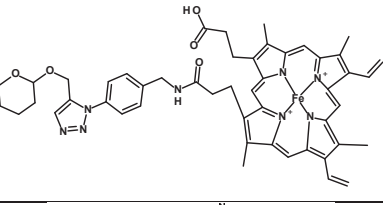
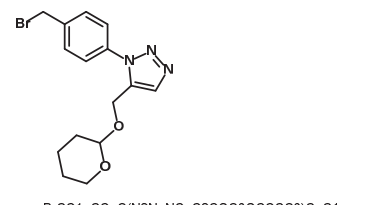
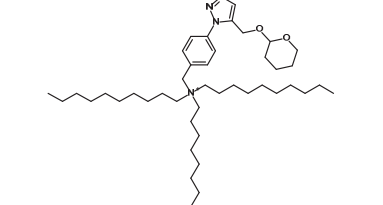
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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 408 | <br><chem>C#CCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>             | 415 |                                                                |
| 409 | <br><chem>C1=CC=C(C=C1)C2=CC=C(N3N=NC=C3COC4OCCCC4)C=C2</chem>    | 416 |                                                                |
| 410 | <br><chem>ClC1=CC=C(C=C1)C2=CC=C(N3N=NC=C3COC4OCCCC4)C=C2</chem>  | 417 |                                                                |
| 411 | <br><chem>BrC1=CC=C(C=C1)C2=CC=C(N3N=NC=C3COC4OCCCC4)C=C2</chem> | 418 | <br><chem>C1(COC2OCCCC2)=CN=NN1C3=CC=C(CN4CCOCCO4)C=C3</chem> |
| 412 | <br><chem>IC1=CC=C(C=C1)C2=CC=C(N3N=NC=C3COC4OCCCC4)C=C2</chem> | 419 |                                                              |
| 413 | <br><chem>ClC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>             | 420 |                                                              |
| 414 | <br><chem>BrC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>             | 421 |                                                              |

FIGURE 1U

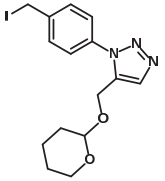
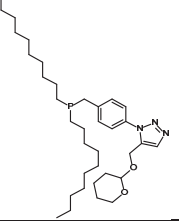
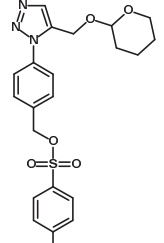
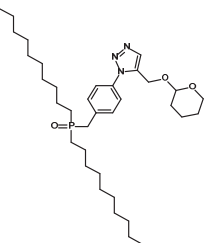
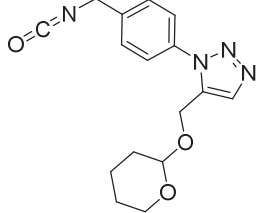
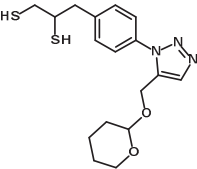
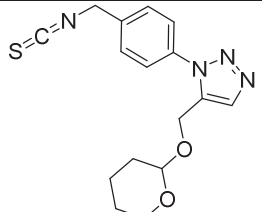
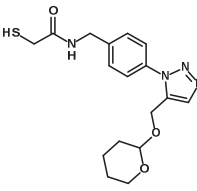
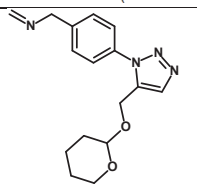
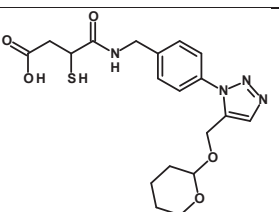
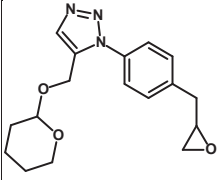
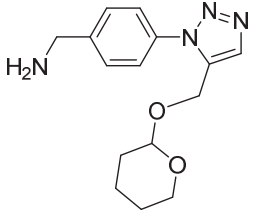
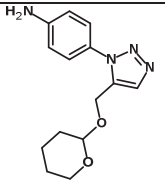
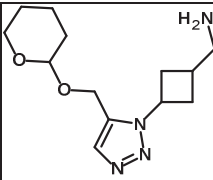
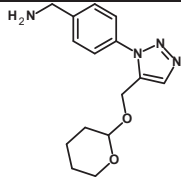
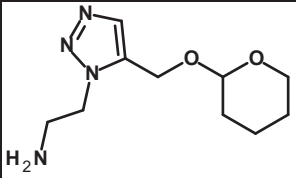
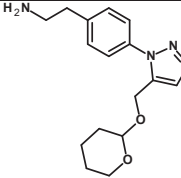
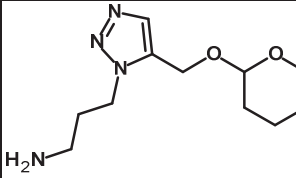
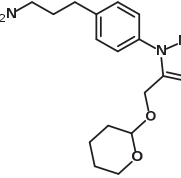
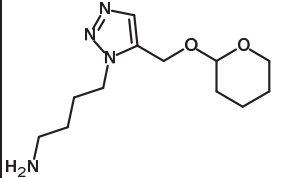
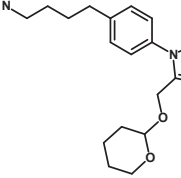
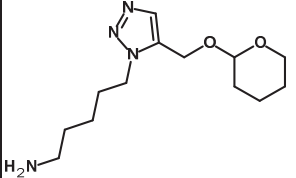
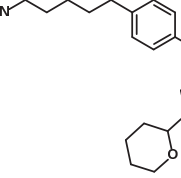
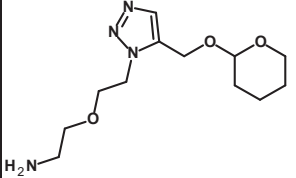
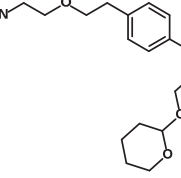
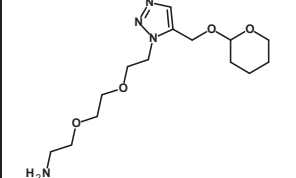
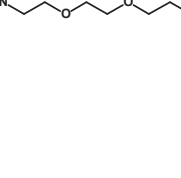
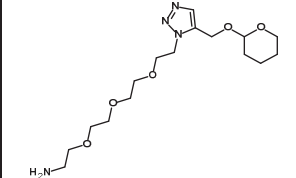
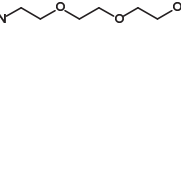
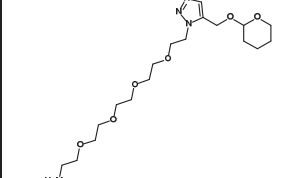
|     |                                                                                                                                                                                         |     |                                                                                                                                               |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 422 | <br><chem>ICC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>                                                    | 429 |                                                            |
| 423 | <br><chem>CC1=CC=C(S(=O)(=O)COC2=CC=C(C=C2)C3=CC=C(N4N=CN=C4C5=CC=C(C=C5)OC6=CC=CC=C6)C=C3)C=C1</chem> | 430 |                                                            |
| 424 | <br><chem>O=C=NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>                                                | 431 | <br><chem>SCC(S)CC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>    |
| 425 | <br><chem>S=C=NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>                                               | 432 | <br><chem>O=C(NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)CS</chem> |
| 426 | <br><chem>C=NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>                                                | 433 |                                                           |
| 427 | <br><chem>C1(COC2OCCCC2)=CN=NN1C3=CC=C(C=C3)C4=CC=CC=C4</chem>                                       | 434 |                                                           |
| 428 | <br><chem>NC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>                                                   | 435 | <br><chem>NCC1CC(N2N=NC=C2COC3OCCCC3)C1</chem>            |

FIGURE 1V

|     |                                                                                                                                                |     |                                                                                                                                       |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------|
| 436 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>           | 444 | <br><chem>NCCCN1N=NC=C1COC2OCCCC2</chem>            |
| 437 | <br><chem>NCCCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>         | 445 | <br><chem>NCCCCN1N=NC=C1COC2OCCCC2</chem>           |
| 438 | <br><chem>NCCCCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>        | 446 | <br><chem>NCCCCCN1N=NC=C1COC2OCCCC2</chem>          |
| 439 | <br><chem>NCCCCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>        | 447 | <br><chem>NCCCCCN1N=NC=C1COC2OCCCC2</chem>          |
| 440 | <br><chem>NCCCCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>      | 448 | <br><chem>NCCOCCN1N=NC=C1COC2OCCCC2</chem>        |
| 441 | <br><chem>NCCOCCCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>    | 449 | <br><chem>NCCOCCCCCN1N=NC=C1COC2OCCCC2</chem>     |
| 442 | <br><chem>NCCOCCCCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>   | 450 | <br><chem>NCCOCCCCCCN1N=NC=C1COC2OCCCC2</chem>    |
| 443 | <br><chem>NCCOCCCCCCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem> | 451 | <br><chem>NCCOCCCCCCCCCN1N=NC=C1COC2OCCCC2</chem> |

**FIGURE 1W**

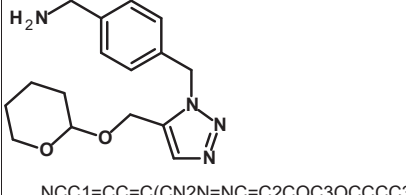
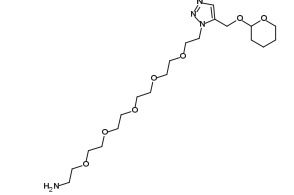
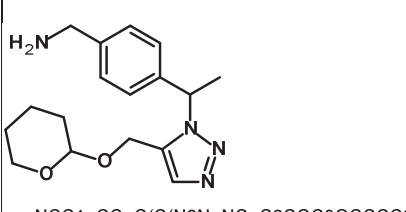
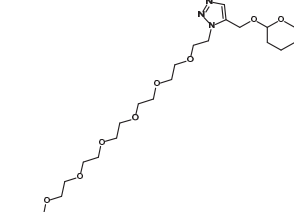
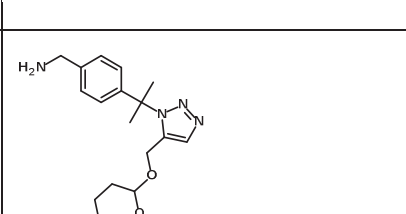
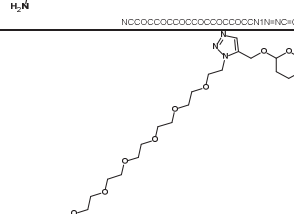
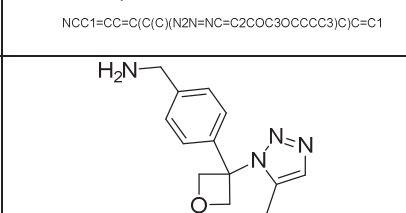
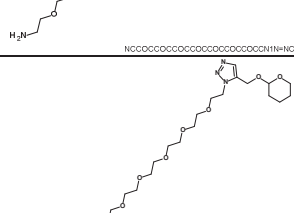
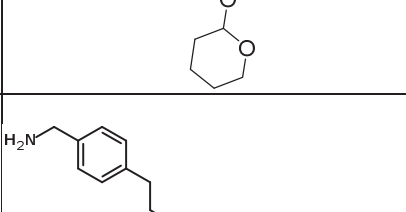
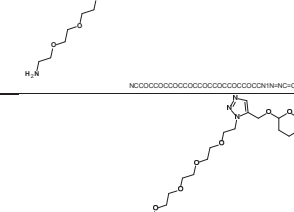
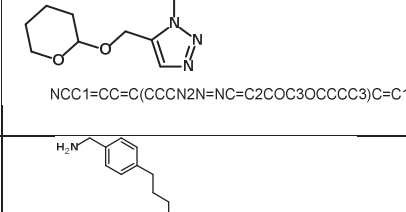
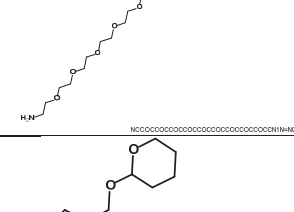
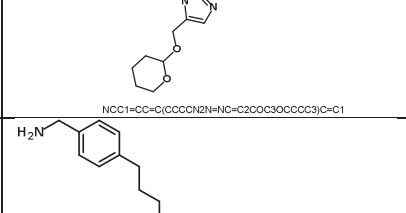
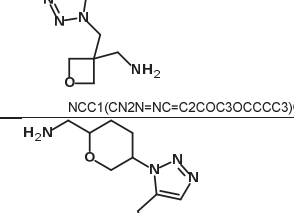
|     |                                                                                     |     |                                                                                      |
|-----|-------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------|
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| 453 |    | 460 |    |
| 454 |    | 461 |    |
| 455 |   | 462 |   |
| 456 |  | 463 |  |
| 457 |  | 464 |  |
| 458 |  | 465 |  |

FIGURE 1X

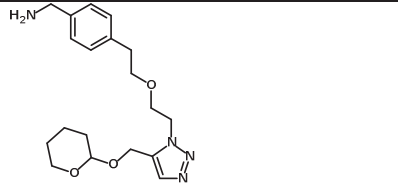
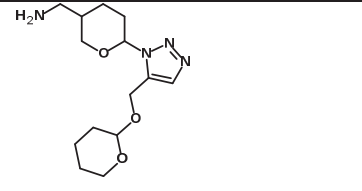
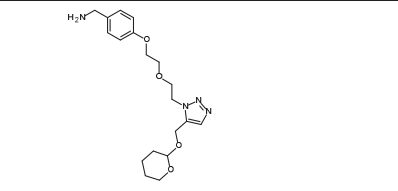
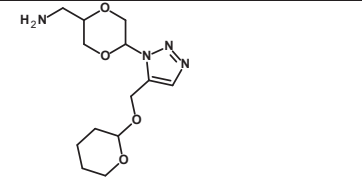
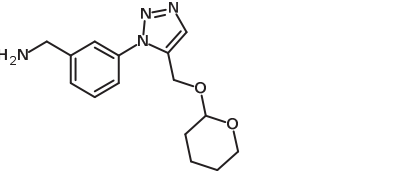
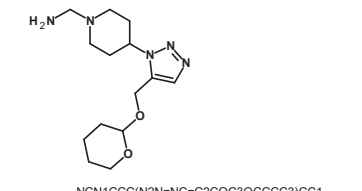
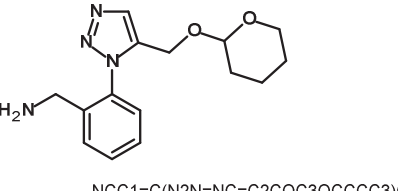
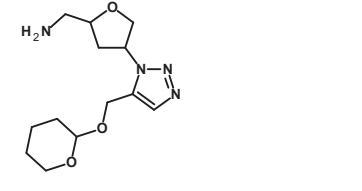
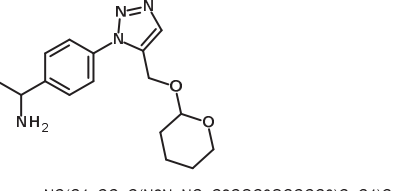
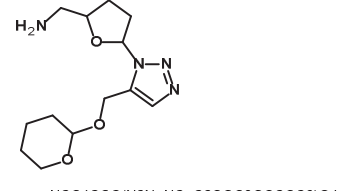
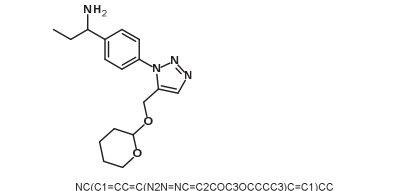
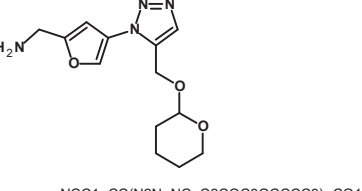
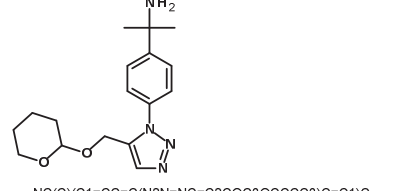
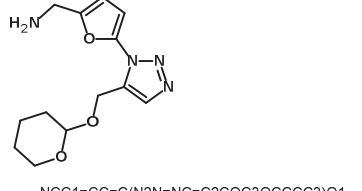
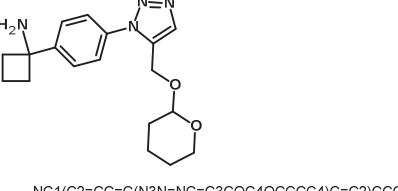
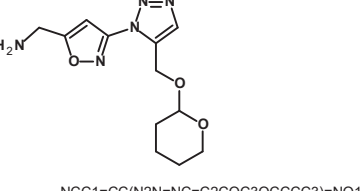
|     |                                                                                                                                               |     |                                                                                                                                       |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------|
| 466 | <br><chem>NCC1=CC=C(C(OCOCN2N=NC=C2COC3OCCCC3)C=C1</chem>    | 474 | <br><chem>NCC1CCC(N2N=NC=C2COC3OCCCC3)OC1</chem>    |
| 467 | <br><chem>NCC1=CC=C(C(OCOCN2N=NC=C2COC3OCCCC3)C=C1</chem>    | 475 | <br><chem>NCC1OCC(N2N=NC=C2COC3OCCCC3)OC1</chem>    |
| 468 | <br><chem>NCC1=CC(N2N=NC=C2COC3OCCCC3)=CC=C1</chem>          | 476 | <br><chem>NCN1CCC(N2N=NC=C2COC3OCCCC3)CC1</chem>    |
| 469 | <br><chem>NCC1=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>            | 477 | <br><chem>NCC1OCC(N2N=NC=C2COC3OCCCC3)C1</chem>    |
| 470 | <br><chem>NC(C1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)C</chem>     | 478 | <br><chem>NCC1CCC(N2N=NC=C2COC3OCCCC3)O1</chem>   |
| 471 | <br><chem>NC(C1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)CC</chem>    | 479 | <br><chem>NCC1=CC(N2N=NC=C2COC3OCCCC3)=CO1</chem> |
| 472 | <br><chem>NC(C)(C1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1)C</chem>  | 480 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)O1</chem> |
| 473 | <br><chem>NC1(C2=CC=C(N3N=NC=C3COC4OCCCC4)C=C2)CCO1</chem> | 481 | <br><chem>NCC1=CC(N2N=NC=C2COC3OCCCC3)=NO1</chem> |

FIGURE 1Y

|     |                                                             |     |                                             |
|-----|-------------------------------------------------------------|-----|---------------------------------------------|
| 482 |                                                             | 490 |                                             |
|     | <chem>NCC1(C2=CC=C(N3N=NC3COC4OCCCC4)C=C2)COC5OCCCC5</chem> |     | <chem>NCC1=NC(N2N=NC2COC3OCCCC3)=CO1</chem> |
| 483 |                                                             | 491 |                                             |
|     | <chem>NCC(C=CC(N1N=NC1COC2OCCCC2)=C3)=C3C</chem>            |     | <chem>NCC1=NC(N2N=NC2COC3OCCCC3)=NO1</chem> |
| 484 |                                                             | 492 |                                             |
|     | <chem>NCC1=CC=C(N2N=NC2COC3OCCCC3)C(C)=C1</chem>            |     | <chem>NCC1=CN=C(N2N=NC2COC3OCCCC3)O1</chem> |
| 485 |                                                             | 493 |                                             |
|     | <chem>NCC1=C(C)C=C(N2N=NC2COC3OCCCC3)C(C)=C1</chem>         |     | <chem>NCC1=NC=C(N2N=NC2COC3OCCCC3)O1</chem> |
| 486 |                                                             | 494 |                                             |
|     | <chem>NCC(C=CC(N1N=NC1COC2OCCCC2)=C3)=C3F</chem>            |     | <chem>NCC1=NN=C(N2N=NC2COC3OCCCC3)O1</chem> |
| 487 |                                                             | 495 |                                             |
|     | <chem>NCC1=CC=C(N2N=NC2COC3OCCCC3)C(F)=C1</chem>            |     | <chem>NCC1SCC(N2N=NC2COC3OCCCC3)C1</chem>   |
| 488 |                                                             | 496 |                                             |
|     | <chem>NCC1=C(F)C=C(N2N=NC2COC3OCCCC3)C(F)=C1</chem>         |     | <chem>NCC1CCC(N2N=NC2COC3OCCCC3)S1</chem>   |
| 489 |                                                             | 497 |                                             |
|     | <chem>NCC(C=CC(N1N=NC1COC2OCCCC2)=C3)=C3C</chem>            |     | <chem>NCC1=CC(N2N=NC2COC3OCCCC3)=CS1</chem> |

FIGURE 1Z

|     |                                                                 |     |                                                   |
|-----|-----------------------------------------------------------------|-----|---------------------------------------------------|
| 498 | <br><chem>NCC1=CC=C(C(N2N=NC=C2COC3OCCCC3)C(C(F)(F)F)=C1</chem> | 506 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)S1</chem> |
| 499 | <br><chem>NCC(C=CC(N1N=NC=C1COC2OCCCC2)=C3)=C3OC(F)(F)F</chem>  | 507 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)S1</chem> |
| 500 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C(C(F)(F)F)=C1</chem>   | 508 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)S1</chem> |
| 501 | <br><chem>NCC(C=CC(N1N=NC=C1COC2OCCCC2)=C3)=C3Cl</chem>         | 509 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)S1</chem> |
| 502 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C(Cl)=C1</chem>         | 510 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)S1</chem> |
| 503 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C(Cl)=C1</chem>         | 511 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)S1</chem> |
| 504 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C(Cl)=C1</chem>         | 512 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)S1</chem> |
| 505 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C(Cl)=C1</chem>         | 513 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)S1</chem> |

FIGURE 1AA

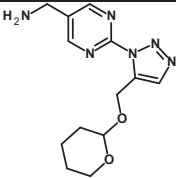
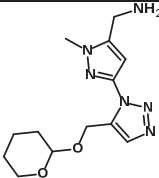
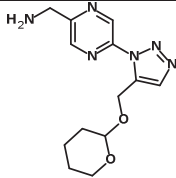
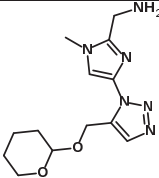
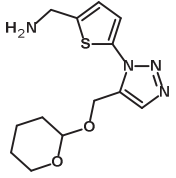
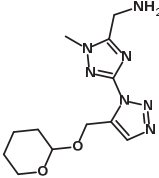
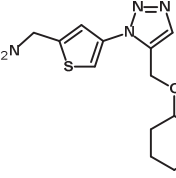
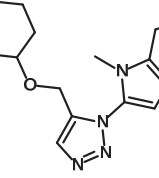
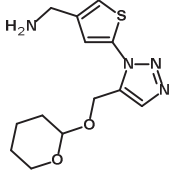
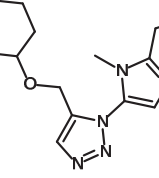
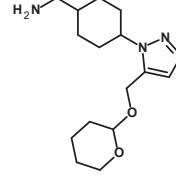
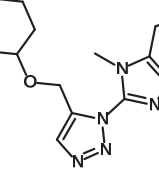
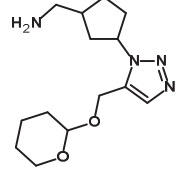
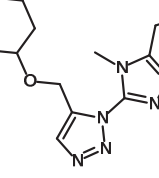
|     |                                                                                                                                      |     |                                                                                                                                      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------|
| 514 | <br><chem>NCC1=CN=C(N2N=NC=C2COC3OCCCC3)N=C1</chem> | 521 | <br><chem>NCC1=CC(N2N=NC=C2COC3OCCCC3)=NN1C</chem> |
| 515 | <br><chem>NCC1=NC=C(N2N=NC=C2COC3OCCCC3)N=C1</chem> | 522 | <br><chem>NCC1=NC(N2N=NC=C2COC3OCCCC3)=CN1C</chem> |
| 516 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)S1</chem>   | 523 | <br><chem>NCC1=NC(N2N=NC=C2COC3OCCCC3)=NN1C</chem> |
| 517 | <br><chem>NCC1=CC(N2N=NC=C2COC3OCCCC3)=CS1</chem>   | 524 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)N</chem>   |
| 518 | <br><chem>NCC1=CSC(N2N=NC=C2COC3OCCCC3)=C1</chem> | 525 | <br><chem>NCC1=NC=C(N2N=NC=C2COC3OCCCC3)N</chem> |
| 519 | <br><chem>NCC1CCC(N2N=NC=C2COC3OCCCC3)CC1</chem>  | 526 | <br><chem>NCC1=CN=C(N2N=NC=C2COC3OCCCC3)N</chem> |
| 520 | <br><chem>NCC1CCC(N2N=NC=C2COC3OCCCC3)C1</chem>   | 527 | <br><chem>NCC1=NN=C(N2N=NC=C2COC3OCCCC3)N</chem> |

FIGURE 1BB

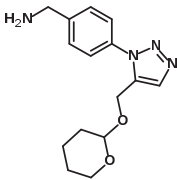
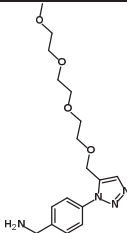
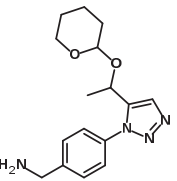
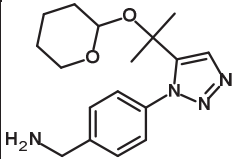
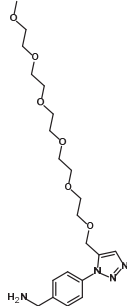
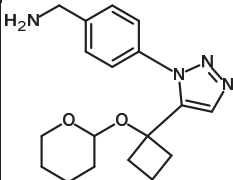
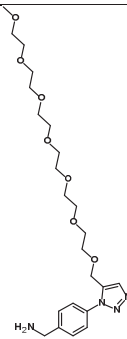
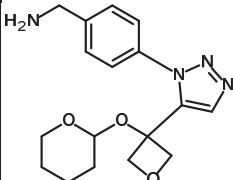
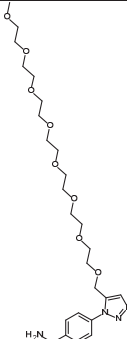
|     |                                                                                                                                            |     |                                                                                                                                                   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 528 | <br><chem>NCC1=CC=C(N2N=NC=C2OC3OCCCC3)C=C1</chem>        | 533 | <br><chem>COCOCOCOCOCOC1=CN=NN1C2=CC=C(C=C2)CN</chem>           |
| 529 | <br><chem>CC(OC1OCCCC1)C2=CN=NN2C3=CC=C(C=C3)CN</chem>    | 534 | <br><chem>COCOCOCOCOCOCOC1=CN=NN1C2=CC=C(C=C2)CN</chem>         |
| 530 | <br><chem>CC(C)(OC1OCCCC1)C2=CN=NN2C3=CC=C(C=C3)CN</chem> | 535 | <br><chem>COCOCOCOCOCOCOCOC1=CN=NN1C2=CC=C(C=C2)CN</chem>      |
| 531 | <br><chem>NCC1=CC=C(N2N=NC=C2C3(OC4OCCCC4)C=C3</chem>   | 536 | <br><chem>COCOCOCOCOCOCOCOCOC1=CN=NN1C2=CC=C(C=C2)CN</chem>   |
| 532 | <br><chem>NCC1=CC=C(N2N=NC=C2C3(OC4OCCCC4)C=C3</chem>   | 537 | <br><chem>COCOCOCOCOCOCOCOCOCOC1=CN=NN1C2=CC=C(C=C2)CN</chem> |

FIGURE 1CC

|     |                                                                  |     |                                                                  |
|-----|------------------------------------------------------------------|-----|------------------------------------------------------------------|
| 538 | <br><chem>CC1=C(N(N=N1)C2=CC=C(C(=C2)CN)COC3OCCCC3</chem>        | 546 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>              |
| 539 | <br><chem>CC(CCC1)OC1OCC2=CN=NN2C3=CC=C(C(=C3)CN</chem>          | 547 | <br><chem>CC1(OCCCCO1)OCC2=CN=NN2C3=CC=C(C(=C3)CN</chem>         |
| 540 | <br><chem>CCCC(CCC1)OC1OCC2=CN=NN2C3=CC=C(C(=C3)CN</chem>        | 548 | <br><chem>CC(CO1)COC1OCC2=CN=NN2C3=CC=C(C(=C3)CN</chem>          |
| 541 | <br><chem>OCC(C(C(C1)O)O)OC1OCC2=CN=NN2C3=CC=C(C(=C3)CN</chem>   | 549 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCC(C4=CC=CC=C4)CO3)C=C1</chem> |
| 542 | <br><chem>OC(C(C(C(O1)O)O)O)C1OCC2=CN=NN2C3=CC=C(C(=C3)CN</chem> | 550 | <br><chem>CC(C)(CO1)COC1OCC2=CN=NN2C3=CC=C(C(=C3)CN</chem>       |
| 543 | <br><chem>OCC1=CN=NN1C2=CC=C(C(=C2)CN</chem>                     | 551 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCC4(COC4)CO3)C=C1</chem>       |
| 544 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>              | 552 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3COCOC3)C=C1</chem>              |
| 545 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>              | 553 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3OCCCC3)C=C1</chem>              |

FIGURE 1DD

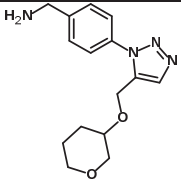
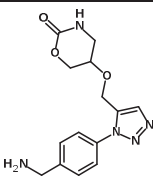
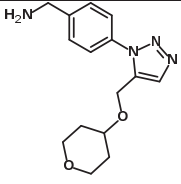
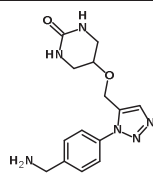
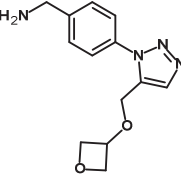
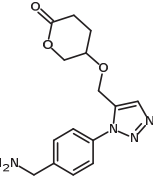
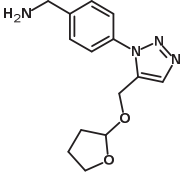
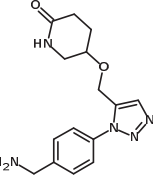
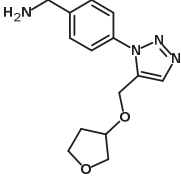
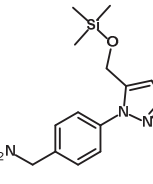
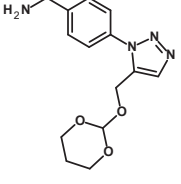
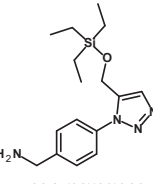
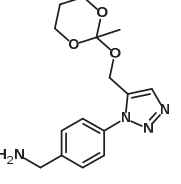
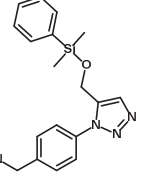
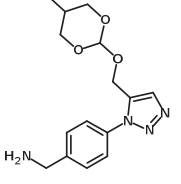
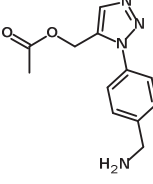
|     |                                                                                                                                           |     |                                                                                                                                                      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 554 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3COCC3)C=C1</chem>       | 562 | <br><chem>O=C(NC1)OCC1OCC2=CN=NN2C3=CC=C(C=C3)CN</chem>            |
| 555 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3COCC3)C=C1</chem>       | 563 | <br><chem>O=C(NC1)NCC1OCC2=CN=NN2C3=CC=C(C=C3)CN</chem>            |
| 556 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3COCC3)C=C1</chem>       | 564 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3COCC3)C=C1</chem>                 |
| 557 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3COCC3)C=C1</chem>      | 565 | <br><chem>O=C(C(C1))NCC1OCC2=CN=NN2C3=CC=C(C=C3)CN</chem>         |
| 558 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3COCC3)C=C1</chem>     | 566 | <br><chem>C[Si](C)(C)OCC1=CN=NN1C2=CC=C(C=C2)CN</chem>           |
| 559 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3COCC3)C=C1</chem>     | 567 | <br><chem>CC[Si](CC)(CC)OCC1=CN=NN1C2=CC=C(C=C2)CN</chem>        |
| 560 | <br><chem>CC1(OCCCO1)OCC2=CN=NN2C3=CC=C(C=C3)CN</chem> | 568 | <br><chem>C[Si](C)(C1=CC=CC=C1)OCC2=CN=NN2C3=CC=C(C=C3)CN</chem> |
| 561 | <br><chem>CC(CO1)COC1OCC2=CN=NN2C3=CC=C(C=C3)CN</chem> | 569 | <br><chem>CC(OCC1=CN=NN1C2=CC=C(C=C2)CN)=O</chem>                |

FIGURE 1EE

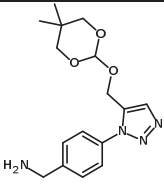
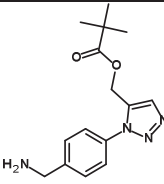
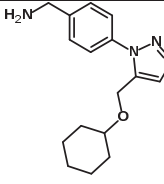
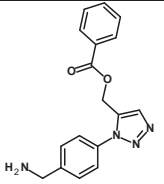
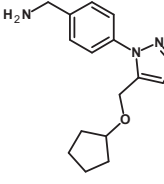
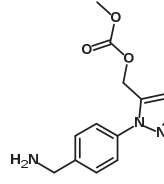
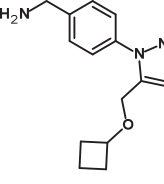
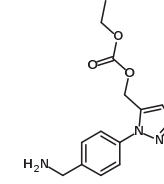
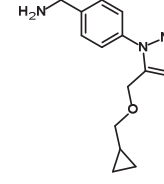
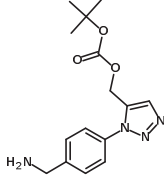
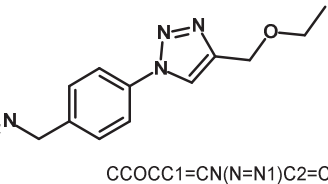
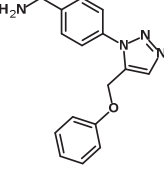
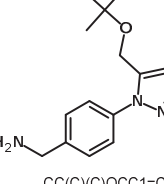
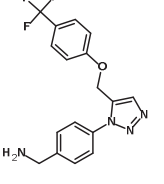
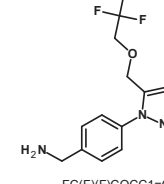
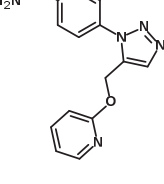
|     |                                                                                                                                           |     |                                                                                                                                               |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 570 | <br><chem>CC(C)(CO1)COC1OC2=CN=NN2C3=CC=C(C=C3)CN</chem> | 578 | <br><chem>O=C(C(C)(C)C)OCC1=CN=NN1C2=CC=C(C=C2)CN</chem>    |
| 571 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3CCCCC3)C=C1</chem>      | 579 | <br><chem>O=C(C1=CC=CC=C1)OCC2=CN=NN2C3=CC=C(C=C3)CN</chem> |
| 572 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3CCCC3)C=C1</chem>       | 580 | <br><chem>O=C(OC)OCC1=CN=NN1C2=CC=C(C=C2)CN</chem>          |
| 573 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3CCCC3)C=C1</chem>      | 581 | <br><chem>O=C(OC)OCC1=CN=NN1C2=CC=C(C=C2)CN</chem>         |
| 574 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3CCCC3)C=C1</chem>     | 582 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3CCCC3)C=C1</chem>        |
| 575 | <br><chem>CCOCC1=CN(N=N1)C2=CC=C(C=C2)CN</chem>        | 583 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3CCCC3)C=C1</chem>        |
| 576 | <br><chem>CC(C)(C)OCC1=CN=NN1C2=CC=C(C=C2)CN</chem>    | 584 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3CCCC3)C=C1</chem>        |
| 577 | <br><chem>FC(F)(F)OCC1=CN=NN1C2=CC=C(C=C2)CN</chem>    | 585 | <br><chem>NCC1=CC=C(N2N=NC=C2COC3CCCC3)C=C1</chem>        |

FIGURE 1FF

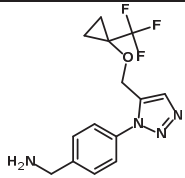
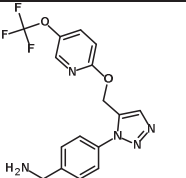
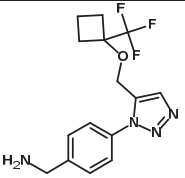
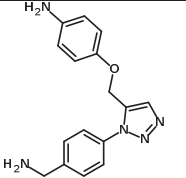
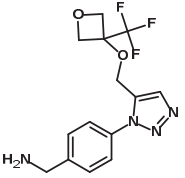
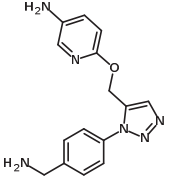
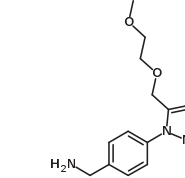
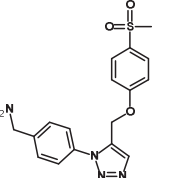
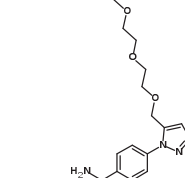
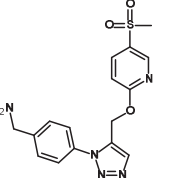
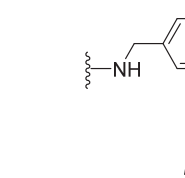
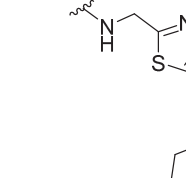
|     |                                                                                                                                              |     |                                                                                                                                                        |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 586 | <br><chem>FC(F)(F)C1(CC1)OCC2=CN=NN2C3=CC=C(C=C3)CN</chem>  | 592 | <br><chem>FC(F)(F)OC(C=C1)=CN=C1OCC2=CN=NN2C3=CC=C(C=C3)CN</chem>    |
| 587 | <br><chem>FC(F)(F)C1(CCC1)OCC2=CN=NN2C3=CC=C(C=C3)CN</chem> | 593 | <br><chem>NC(C=C1)=CC=C1OCC2=CN=NN2C3=CC=C(C=C3)CN</chem>            |
| 588 | <br><chem>FC(F)(F)C1(COC1)OCC2=CN=NN2C3=CC=C(C=C3)CN</chem> | 594 | <br><chem>NC(C=C1)=CN=C1OCC2=CN=NN2C3=CC=C(C=C3)CN</chem>            |
| 589 | <br><chem>COCCOCC1=CN=NN1C2=CC=C(C=C2)CN</chem>             | 595 | <br><chem>O=S(C(C=C1)=CC=C1OCC2=CN=NN2C3=CC=C(C=C3)CN)(C)=O</chem>   |
| 590 | <br><chem>COCCOCCOCC1=CN=NN1C2=CC=C(C=C2)CN</chem>        | 596 | <br><chem>O=S(C(C=C1)=CN=C1OCC2=CN=NN2C3=CC=C(C=C3)CN)(C)=O</chem> |
| 591 | <br><chem>COCCOCCOCC1=CN=NN1C2=CC=C(C=C2)CN</chem>        | 597 | <br><chem>COCCOCCOCC1=CN=NN1C2=CC=C(C=C2)CN</chem>                 |

FIGURE 2A

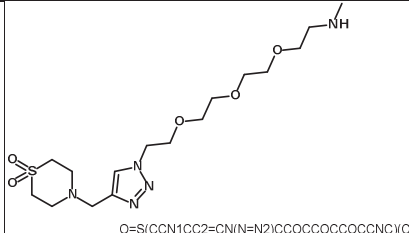
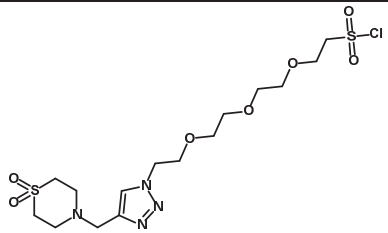
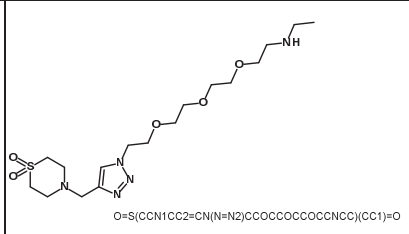
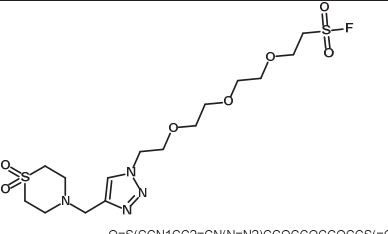
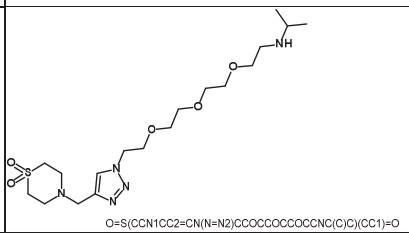
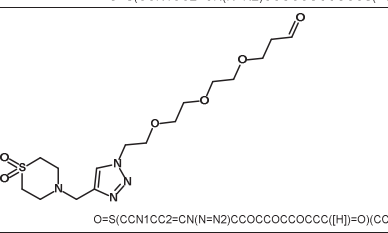
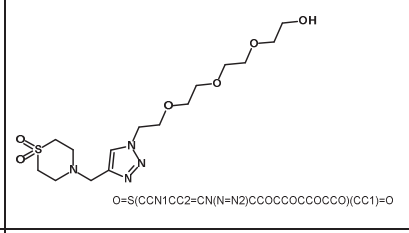
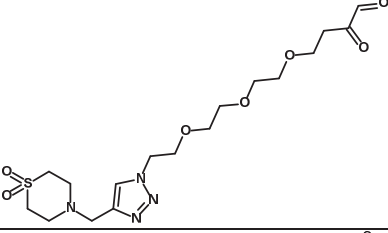
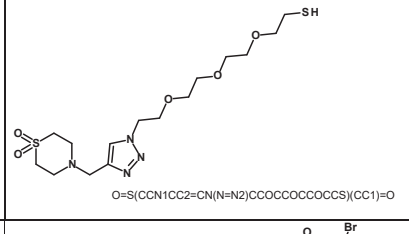
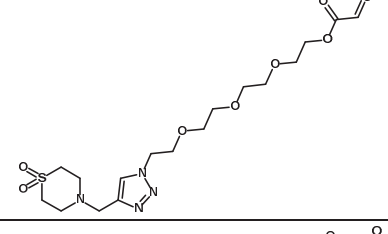
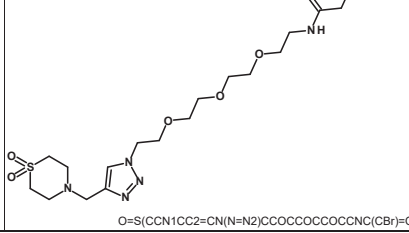
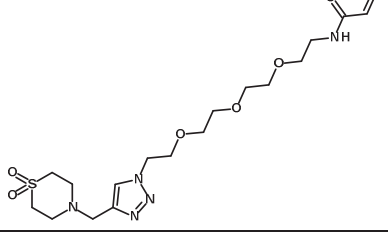
|     |                                                                                                                                                |     |                                                                                                                                                   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 598 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCNC)(C</chem>         | 604 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCNC)(C</chem>           |
| 599 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCNC)(CC1)=O</chem>    | 605 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCNC)(=O</chem>          |
| 600 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCNC)(C)(CC1)=O</chem> | 606 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCNC)([H])=O)(CC1</chem> |
| 601 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCO)(CC1)=O</chem>    | 607 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCO)(CC1)=O</chem>      |
| 602 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCS)(CC1)=O</chem>   | 608 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCS)(CC1)=O</chem>     |
| 603 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCNC)(CBr)=C</chem>  | 609 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCNC)(CBr)=C</chem>    |

FIGURE 2B

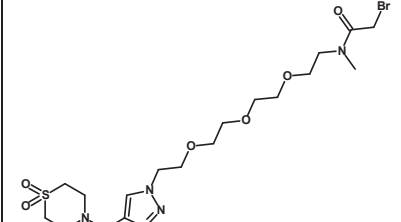
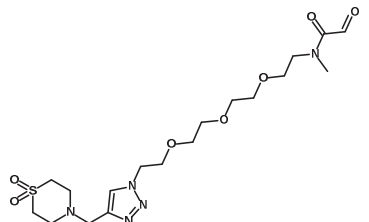
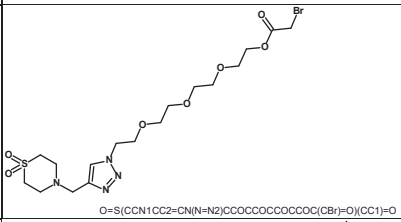
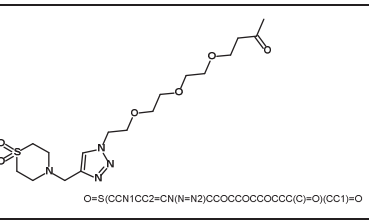
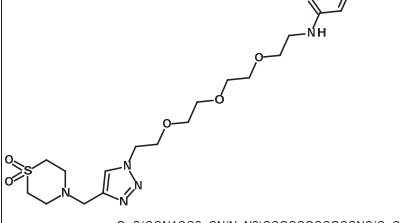
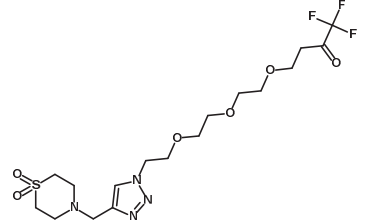
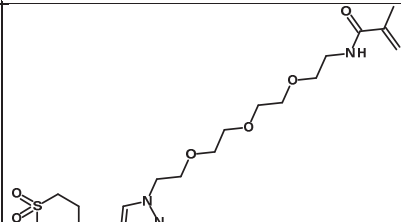
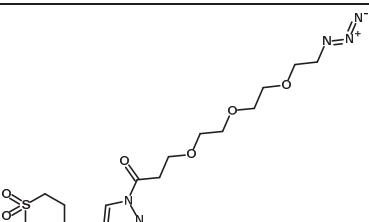
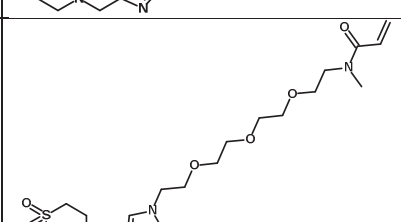
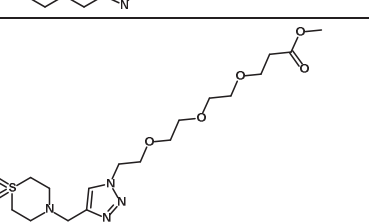
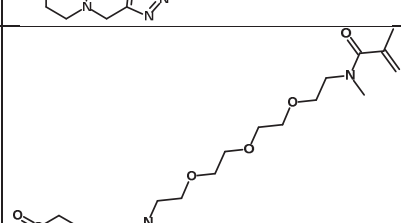
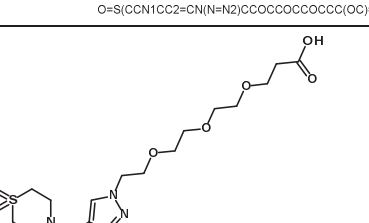
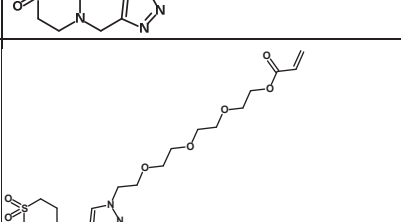
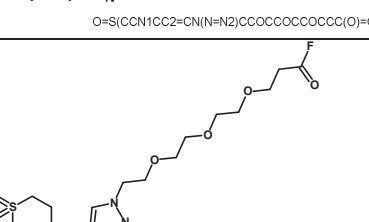
|     |                                                                                                                                                     |     |                                                                                                                                                     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 610 |                                                                    | 617 |                                                                   |
| 611 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOC(CBr)=O)(CC1)=O</chem>  | 618 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOC(C)=O)(CC1)=O</chem>   |
| 612 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOCC(C=O)=O)(CC1)=O</chem> | 619 |                                                                   |
| 613 |                                                                   | 620 |                                                                  |
| 614 |                                                                  | 621 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOC(C)=O)(CC1)=O</chem> |
| 615 |                                                                  | 622 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOC(C)=O)(CC1)=O</chem> |
| 616 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOC(C)=O)(CC1)=O</chem>  | 623 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOC(C)=O)(CC1)=O</chem> |

FIGURE 2C

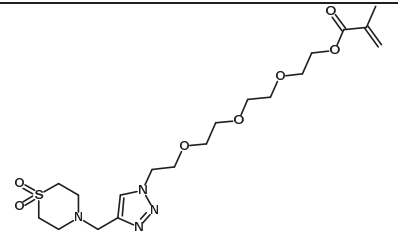
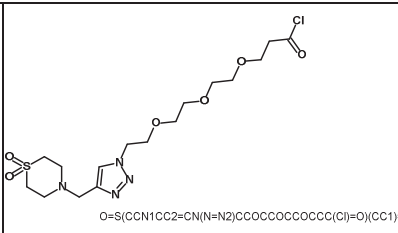
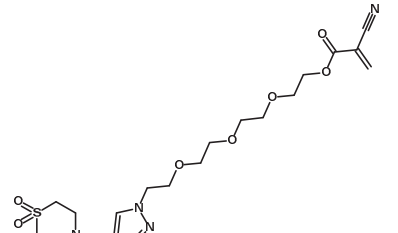
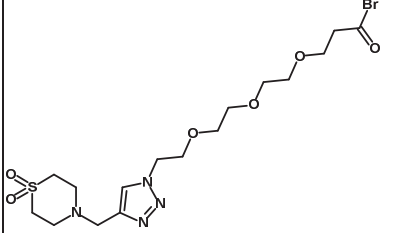
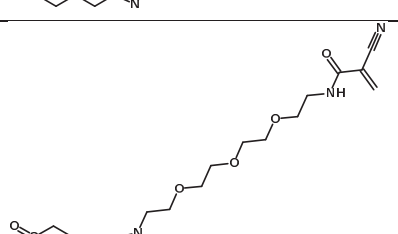
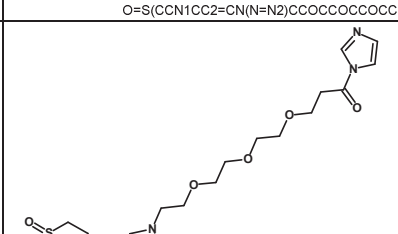
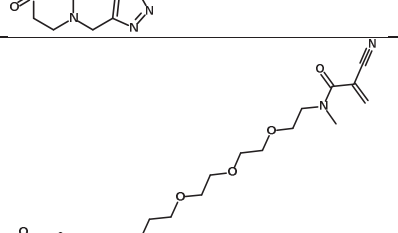
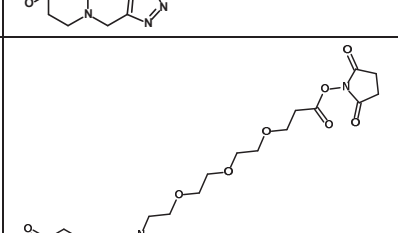
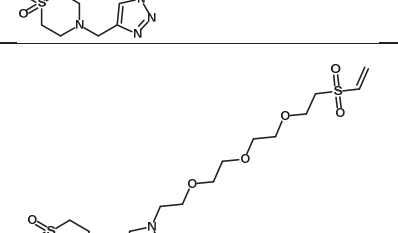
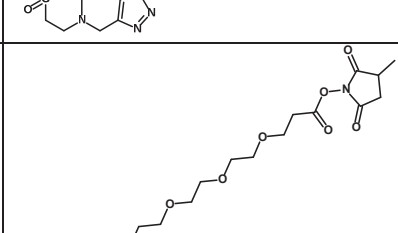
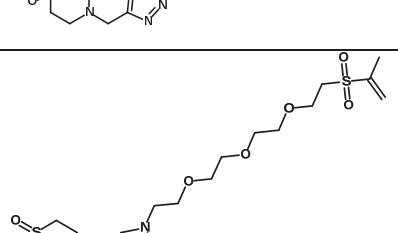
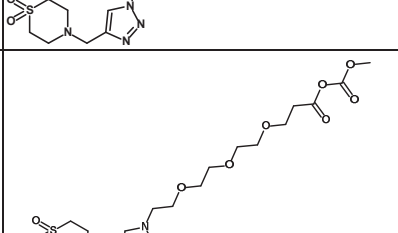
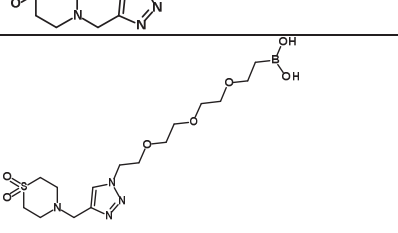
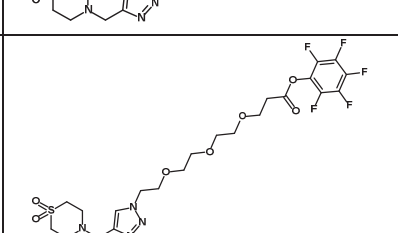
|     |                                                                                                                                                    |     |                                                                                                                                                   |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 624 |                                                                   | 631 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOCC(=O)Cl)(CC1)</chem> |
| 625 |                                                                   | 632 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOCC(=O)Br)(CC1)</chem> |
| 626 |                                                                   | 633 |                                                                 |
| 627 |                                                                  | 634 |                                                                |
| 628 |                                                                 | 635 |                                                               |
| 629 |                                                                 | 636 |                                                               |
| 630 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOCC(O)O)(CC1)=O</chem> | 637 |                                                               |

FIGURE 2D

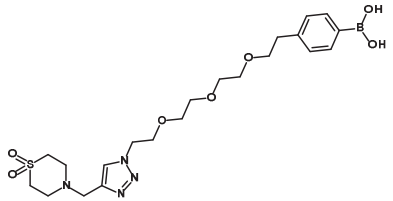
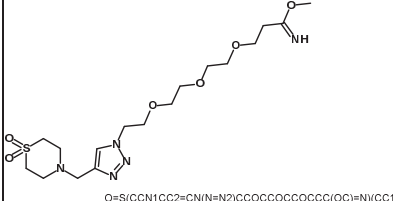
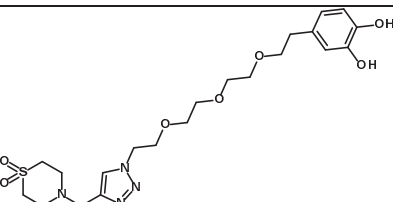
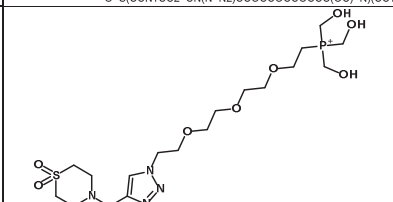
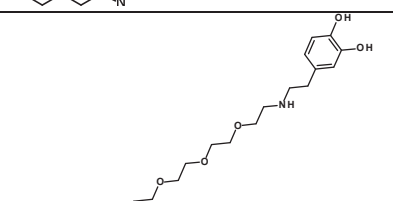
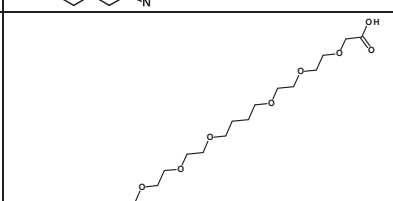
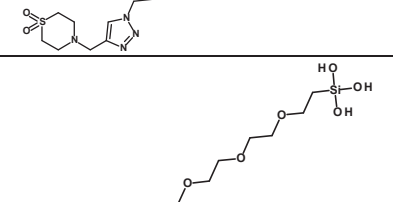
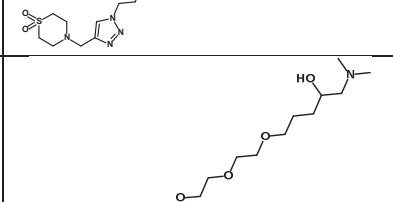
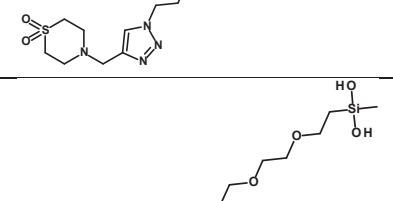
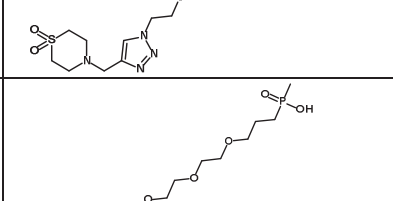
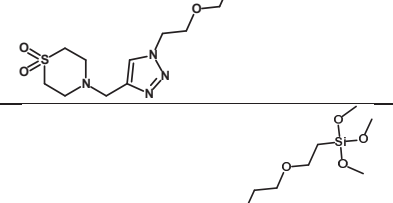
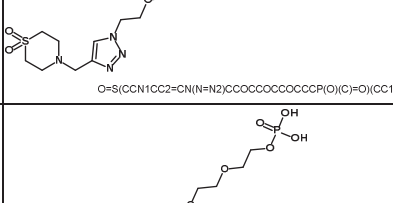
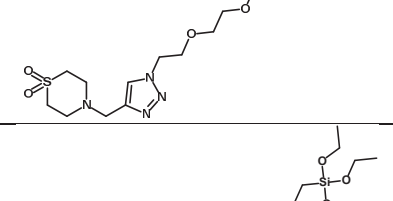
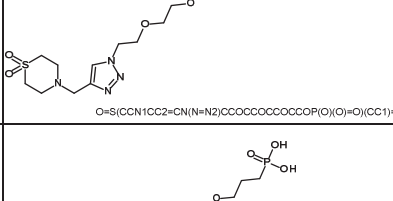
|     |                                                                                     |     |                                                                                                                                                          |
|-----|-------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 638 |    | 645 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOCC(OC)=N)(CC1)</chem>        |
| 639 |    | 646 |                                                                        |
| 640 |    | 647 |                                                                        |
| 641 |   | 648 |                                                                       |
| 642 |  | 649 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOCCP(O)(O)(O)(CC1)</chem>   |
| 643 |  | 650 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOCCP(O)(O)=O)(CC1)</chem>   |
| 644 |  | 651 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOCCP(O)(O)=O)(CC1)=O</chem> |

FIGURE 2E

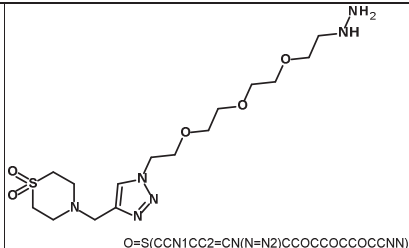
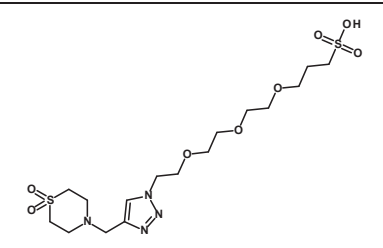
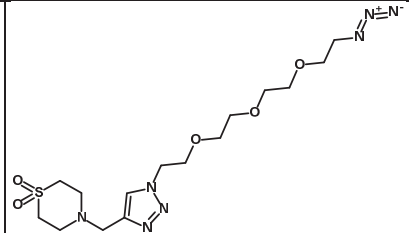
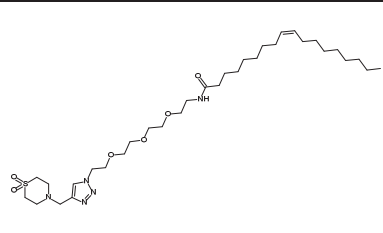
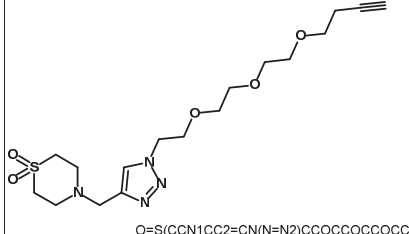
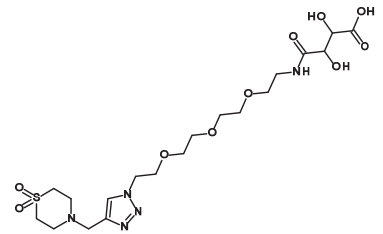
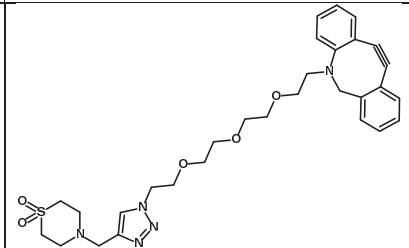
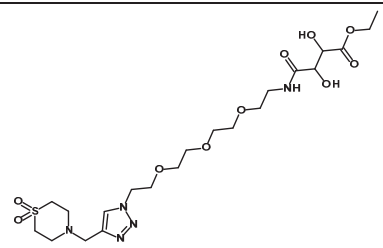
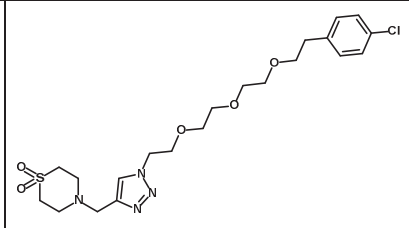
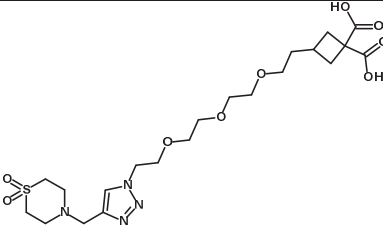
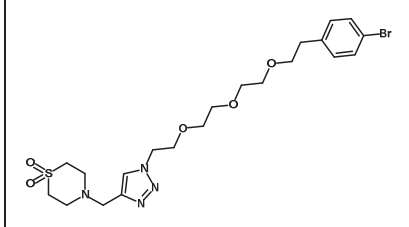
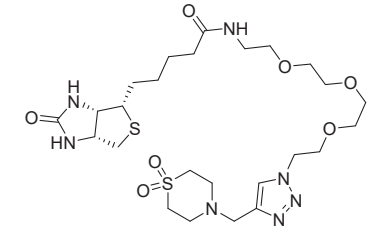
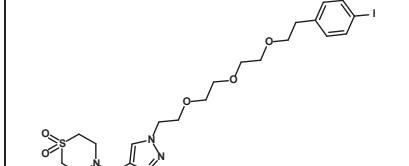
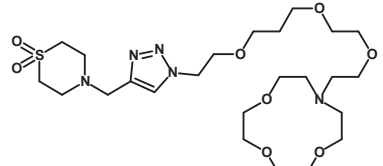
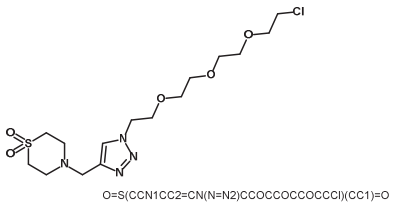
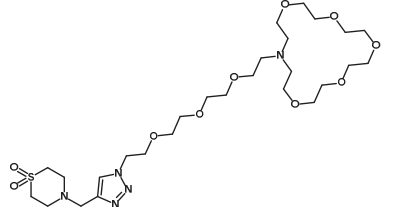
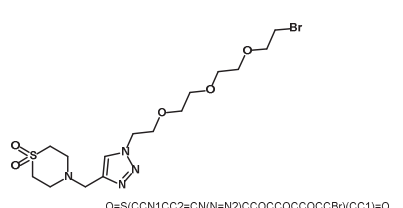
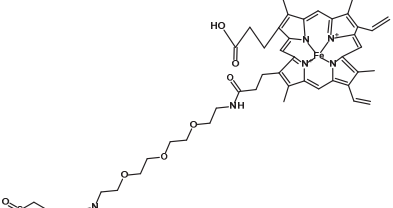
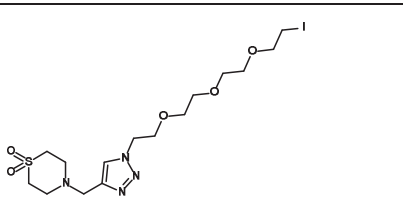
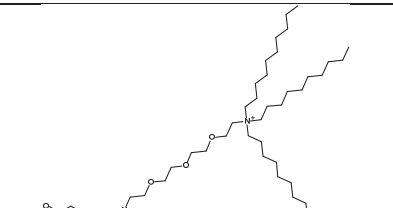
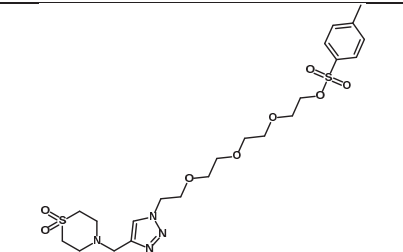
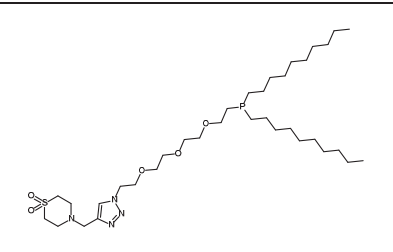
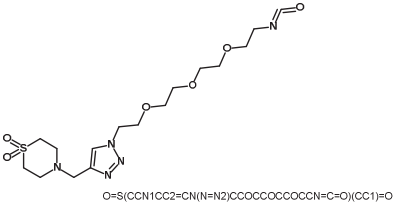
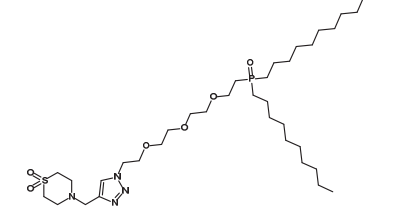
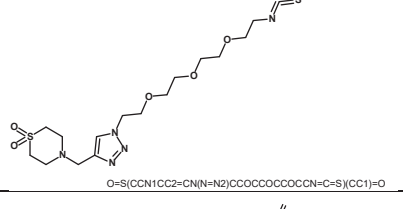
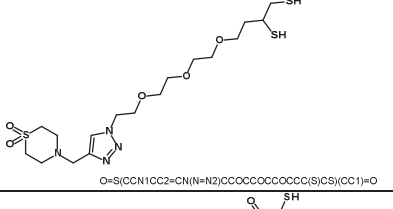
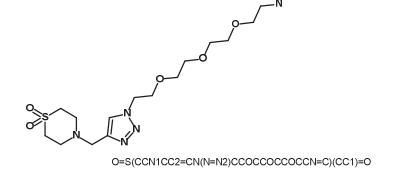
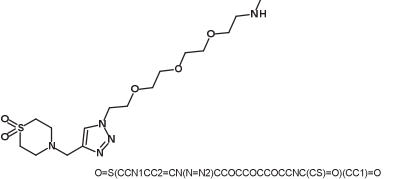
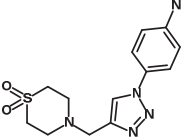
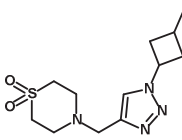
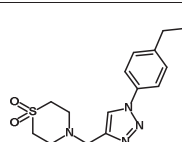
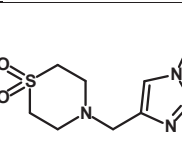
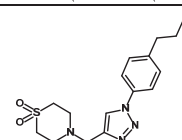
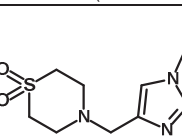
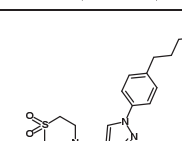
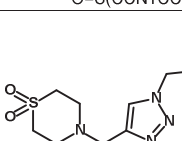
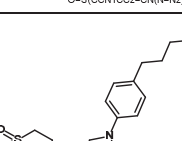
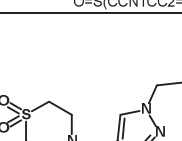
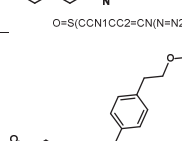
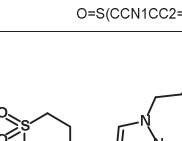
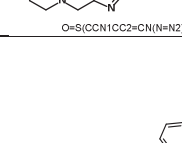
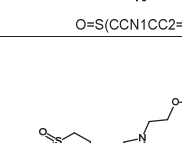
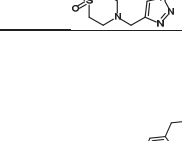
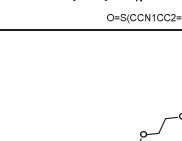
|     |                                                                                                                                                               |     |                                                                                      |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------|
| 652 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCN)</chem>                           | 659 |    |
| 653 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCC[N-]=[N+]=[N-])</chem>              | 660 |    |
| 654 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCC#C)</chem>                          | 661 |    |
| 655 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCc3ccc4c5ccccc4c3-c6ccccc65)</chem> | 662 |   |
| 656 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCc3ccc(Cl)cc3)</chem>              | 663 |  |
| 657 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCc3ccc(Br)cc3)</chem>              | 664 |  |
| 658 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCc3ccc(I)cc3)</chem>               | 665 |  |

FIGURE 2F

|     |                                                                                                                                                                 |     |                                                                                                                                                     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 666 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCCl)(CC1)=O</chem>                     | 673 |                                                                   |
| 667 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCBr)(CC1)=O</chem>                     | 674 |                                                                   |
| 668 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCI)(CC1)=O</chem>                      | 675 |                                                                   |
| 669 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOS(=O)(=O)c3ccc(C)cc3)(CC1)=O</chem> | 676 |                                                                  |
| 670 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCCN=[N+]=[N-])(CC1)=O</chem>         | 677 |                                                                 |
| 671 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCCN=[N+]=[N-])(CC1)=O</chem>         | 678 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCC(CS)(CS)(CC1)=O</chem> |
| 672 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCCN=[N+]=[N-])(CC1)=O</chem>         | 679 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCNC(=O)S)(CC1)=O</chem> |

**FIGURE 2G**

|                                                                                                                                                                        |                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>680</p>  <p><chem>O=S1(CCN1CC2=CN(CCOCCOCCOCCOCCOCCOCC3OC3)N=N2)(CC1)=O</chem></p> | <p>689</p>  <p><chem>O=S1(CCN1CC2=CN(CCOCCOCCOCCOCCOCCOCC3OC3)N=N2)(CC1)=O</chem></p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|     |                                                                                                                                                        |     |                                                                                                                                                     |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 681 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=C(C(=C3)N)(CC1)=O</chem>          | 690 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3CC(C3)CN)(CC1)=O</chem>           |
| 682 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(C=C3)=CC=C3CCN)(CC1)=O</chem>         | 691 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCN)(CC1)=O</chem>                  |
| 683 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(C=C3)=CC=C3CCN)(CC1)=O</chem>         | 692 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCCN)(CC1)=O</chem>                 |
| 684 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(C=C3)=CC=C3CCCCN)(CC1)=O</chem>     | 693 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCCCN)(CC1)=O</chem>              |
| 685 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(C=C3)=CC=C3CCCCCN)(CC1)=O</chem>    | 694 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCCCCN)(CC1)=O</chem>             |
| 686 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(C=C3)=CC=C3COCCN)(CC1)=O</chem>     | 695 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCN)(CC1)=O</chem>             |
| 687 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(C=C3)=CC=C3COOCCN)(CC1)=O</chem>    | 696 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCN)(CC1)=O</chem>          |
| 688 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(C=C3)=CC=C3COOCCOCCN)(CC1)=O</chem> | 697 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOCCOCCN)(CC1)=O</chem> |

**FIGURE 2H**

|     |                                                         |     |                                                      |
|-----|---------------------------------------------------------|-----|------------------------------------------------------|
| 698 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem>    | 706 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem> |
| 699 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(C)C3=CC=C(C=C3)C</chem> | 707 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem> |
| 700 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem>    | 708 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem> |
| 701 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem>    | 709 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem> |
| 702 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem>    | 710 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem> |
| 703 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem>    | 711 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem> |
| 704 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem>    | 712 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem> |
| 705 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem>    | 713 | <br><chem>O=S(CCN1CC2=CN(N=N2)CC3=CC=C(C=C3)C</chem> |

FIGURE 2I

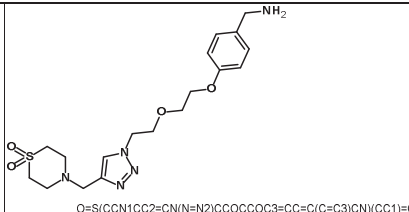
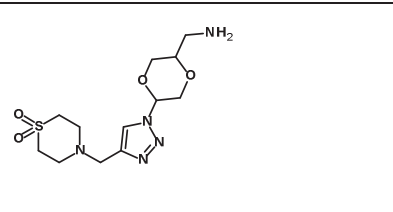
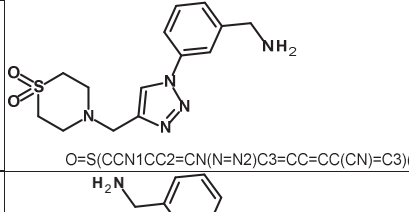
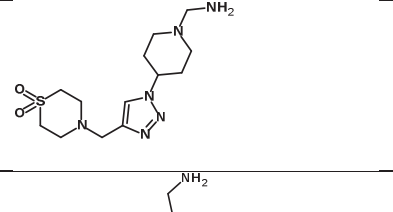
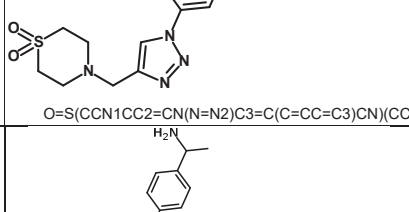
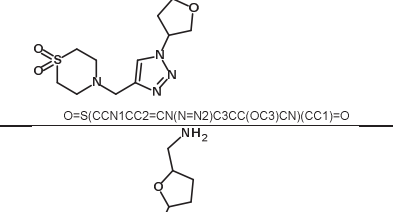
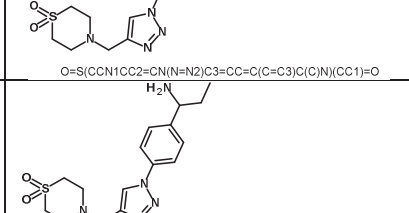
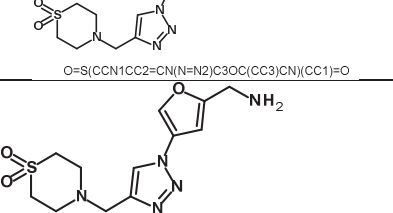
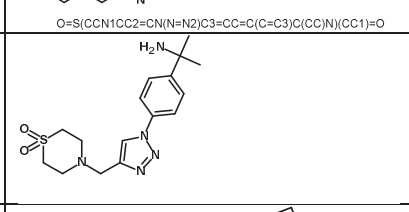
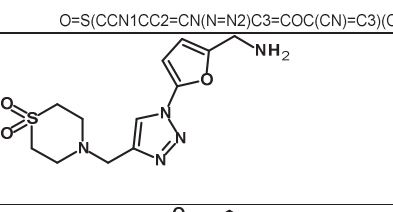
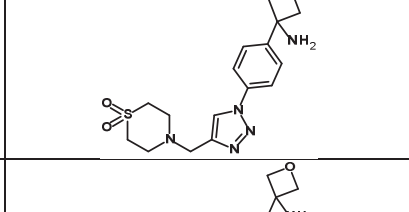
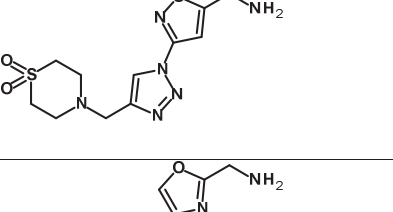
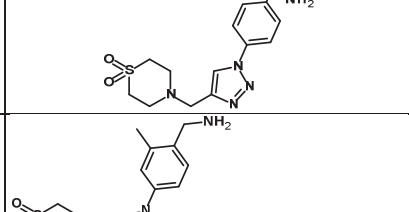
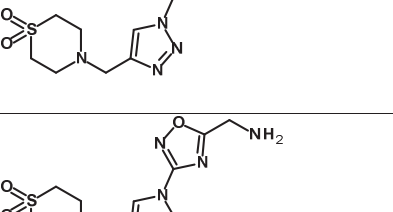
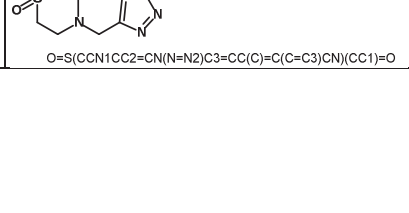
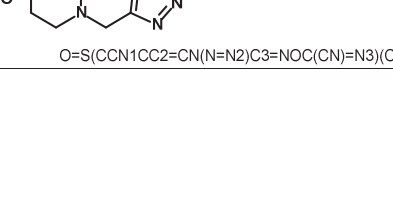
|     |                                                                                                                                                    |     |                                                                                                                                                     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 714 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCOC3=CC=C(C=C3)CN)(CC1)=O</chem> | 723 | <br><chem>O=S(CCN1CC2=CN(N=N2)CCOCOC3=CC=C(C=C3)CN)(CC1)=O</chem> |
| 715 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>      | 724 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>      |
| 716 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>      | 725 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>      |
| 717 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>     | 726 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>     |
| 718 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>    | 727 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>    |
| 719 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>    | 728 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>    |
| 720 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>    | 729 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>    |
| 721 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>    | 730 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>    |
| 722 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>    | 731 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC=CC(CN)=C3)(CC1)=O</chem>    |

FIGURE 2J

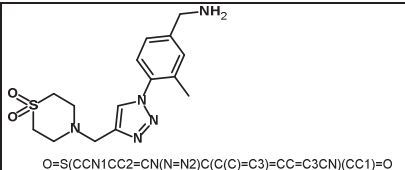
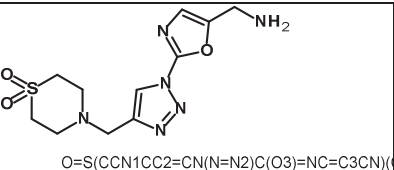
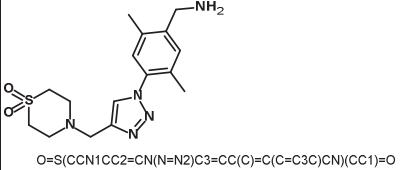
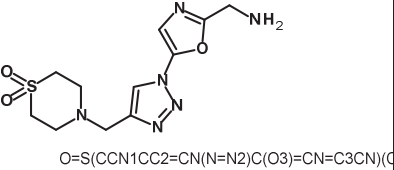
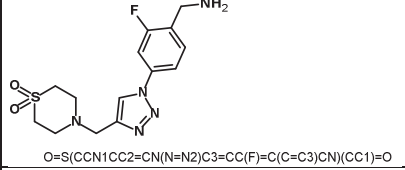
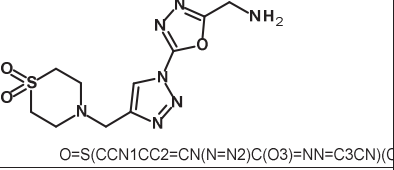
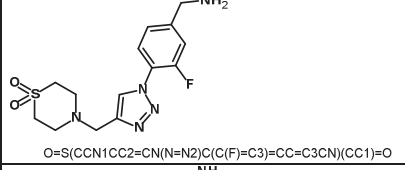
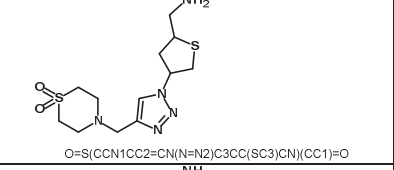
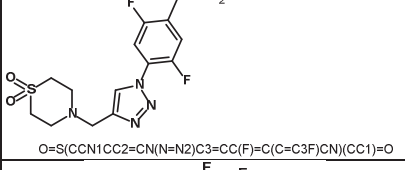
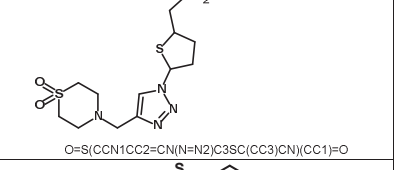
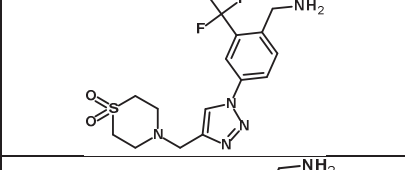
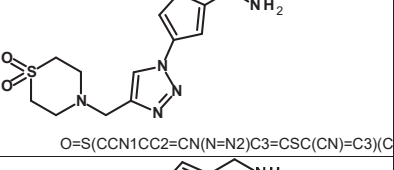
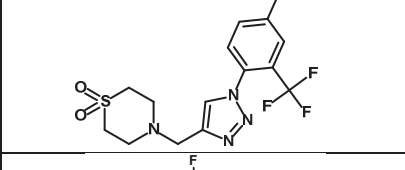
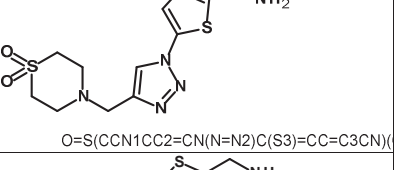
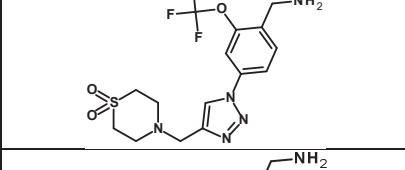
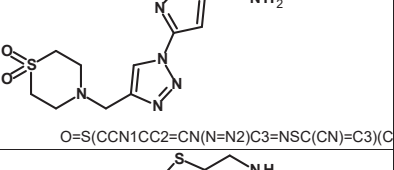
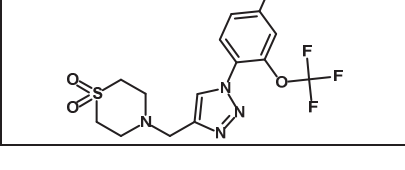
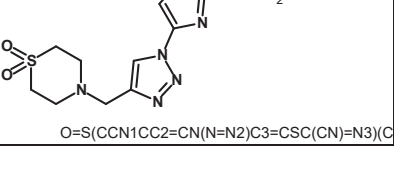
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|-----|-------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------|
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| 733 |    | 742 |    |
| 734 |    | 743 |    |
| 735 |    | 744 |    |
| 736 |   | 745 |   |
| 737 |  | 746 |  |
| 738 |  | 747 |  |
| 739 |  | 748 |  |
| 740 |  | 749 |  |

FIGURE 2K

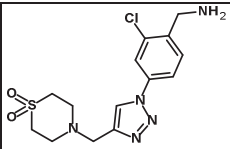
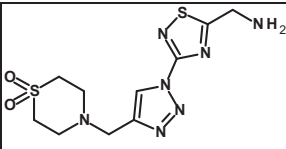
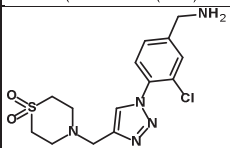
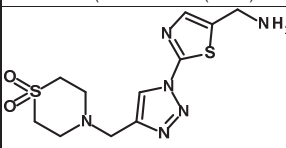
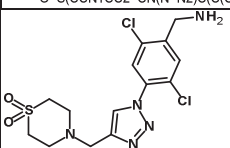
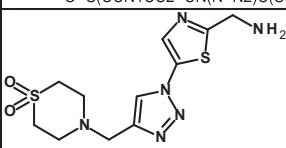
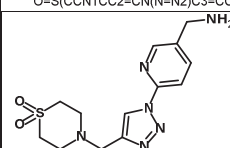
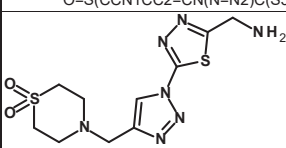
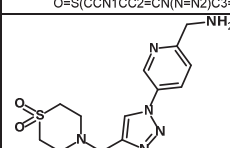
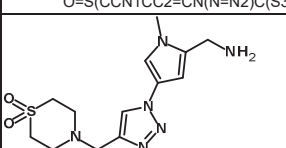
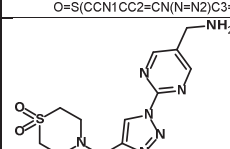
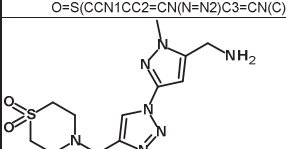
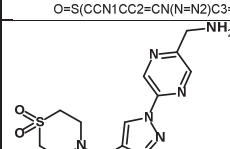
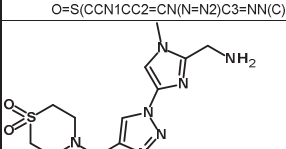
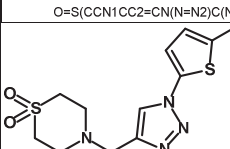
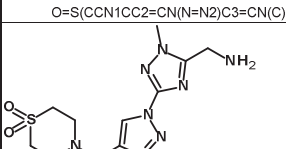
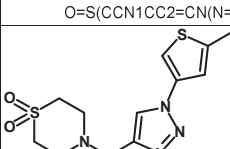
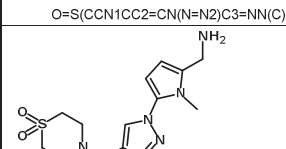
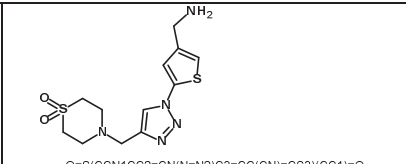
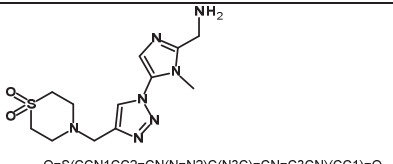
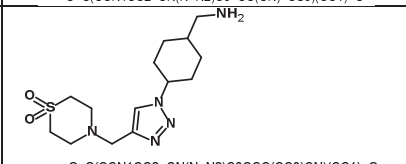
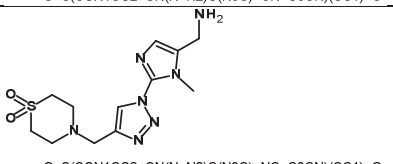
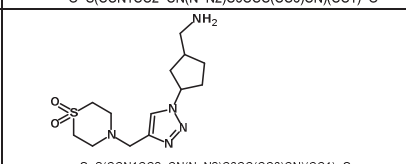
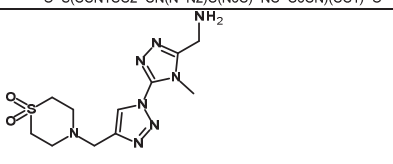
|     |                                                                                                                                                   |     |                                                                                                                                                 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 750 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC(Cl)=C(C=C3)CN)(CC1)=O</chem> | 759 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=NSC(CN)=N3)(CC1)=O</chem>    |
| 751 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(C(Cl)=C3)CC=C3CN)(CC1)=O</chem>  | 760 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(S3)=NC=C3CN)(CC1)=O</chem>    |
| 752 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC(Cl)=C(C=C3)CN)(CC1)=O</chem> | 761 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(S3)=CN=C3CN)(CC1)=O</chem>    |
| 753 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=NC=C(C=C3)CN)(CC1)=O</chem>     | 762 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(S3)=NN=C3CN)(CC1)=O</chem>    |
| 754 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=NC=C(C=C3)CN)(CC1)=O</chem>    | 763 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=NC(C(CN)=C3)(CC1)=O</chem>  |
| 755 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=NC=C(C=N3)CN)(CC1)=O</chem>   | 764 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=NN(C(CN)=C3)(CC1)=O</chem> |
| 756 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(N=C3)=CN=C3CN)(CC1)=O</chem>   | 765 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=NC(C(CN)=N3)(CC1)=O</chem> |
| 757 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(S3)=CC=C3CN)(CC1)=O</chem>     | 766 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=NN(C(CN)=N3)(CC1)=O</chem> |
| 758 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CSC(CN)=C3)(CC1)=O</chem>     | 767 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(N3O)=CC=C3CN)(CC1)=O</chem> |

FIGURE 2L

|     |                                                                                                                                             |     |                                                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 768 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3=CC(CN)=CS3)(CC1)=O</chem> | 778 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(N3C)=CN=C3CN)(CC1)=O</chem> |
| 769 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3CC(C(C3)CN)(CC1)=O</chem>  | 779 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(N3C)=NC=C3CN)(CC1)=O</chem> |
| 770 | <br><chem>O=S(CCN1CC2=CN(N=N2)C3CC(C(C3)CN)(CC1)=O</chem>  | 780 | <br><chem>O=S(CCN1CC2=CN(N=N2)C(N3C)=NN=C3CN)(CC1)=O</chem> |

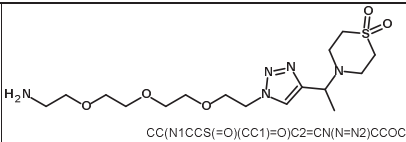
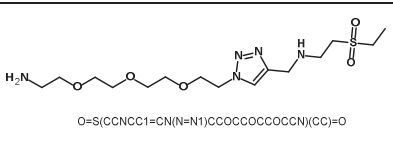
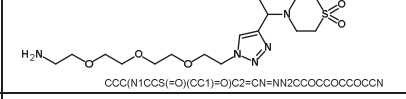
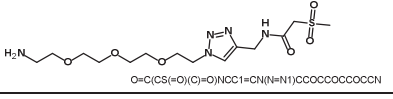
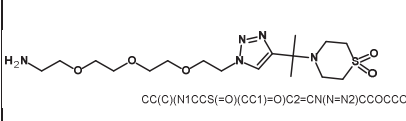
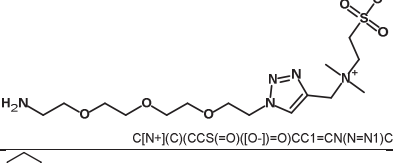
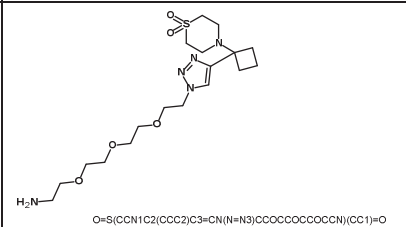
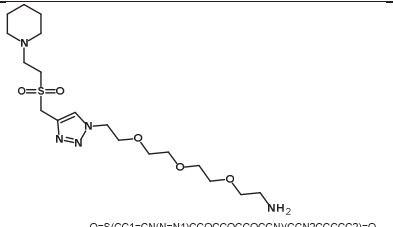
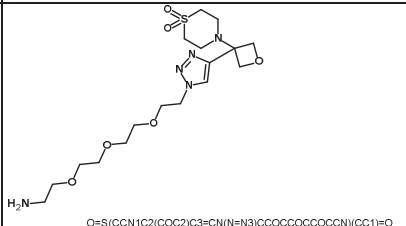
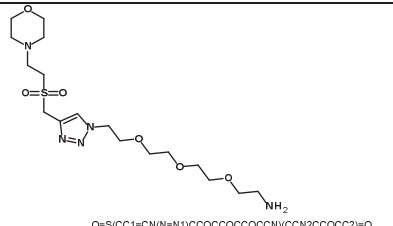
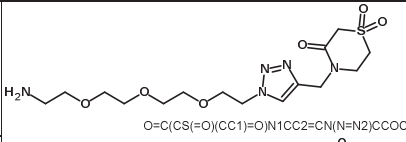
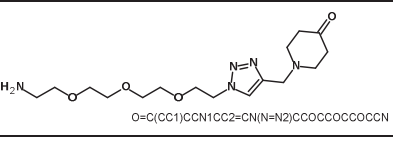
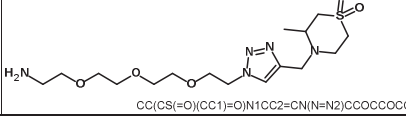
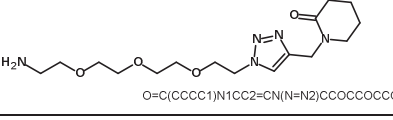
|     |                                                                                                                                                   |     |                                                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 771 | <br><chem>CC(N1CCS(=O)(CC1)=O)C2=CN(N=N2)CCOC</chem>             | 781 | <br><chem>O=S(CCNCC1=CN(N=N1)CCOCOCOCOCN)(CC)=O</chem>      |
| 772 | <br><chem>CCC(N1CCS(=O)(CC1)=O)C2=CN=NN2COCOCOCOCN</chem>       | 782 | <br><chem>O=C(CS(=O)(C)=O)NCC1=CN(N=N1)COCOCOCOCN</chem>   |
| 773 | <br><chem>CC(C)(N1CCS(=O)(CC1)=O)C2=CN(N=N2)CCOCOC</chem>      | 783 | <br><chem>C[N+](C)(CCS(=O)([O-])=O)CC1=CN(N=N1)C</chem>   |
| 774 | <br><chem>O=S(CCN1C2(CCC2)C3=CN(N=N3)COCOCOCOCN)(CC1)=O</chem> | 784 | <br><chem>O=S(CC1=CN(N=N1)COCOCOCOCN)(CCN2CCCC2)=O</chem> |
| 775 | <br><chem>O=S(CCN1C2(COC2)C3=CN(N=N3)COCOCOCOCN)(CC1)=O</chem> | 785 | <br><chem>O=S(CC1=CN(N=N1)COCOCOCOCN)(CCN2CCCC2)=O</chem> |
| 776 | <br><chem>O=C(CS(=O)(CC1)=O)N1CC2=CN(N=N2)COC</chem>           | 786 | <br><chem>O=C(C(C1)CCN1CC2=CN(N=N2)COCOCOCOCN</chem>      |
| 777 | <br><chem>CC(CS(=O)(CC1)=O)N1CC2=CN(N=N2)COCOCOC</chem>        | 787 | <br><chem>O=C(CCCC1)N1CC2=CN(N=N2)COCOCOC</chem>          |

FIGURE 2M

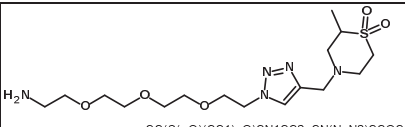
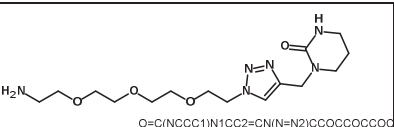
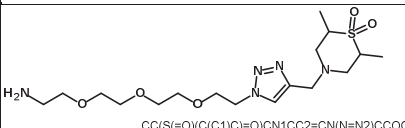
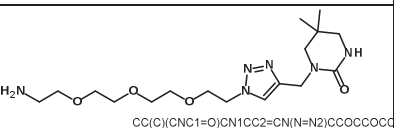
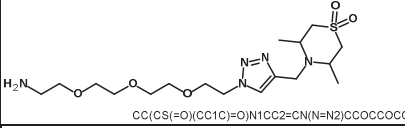
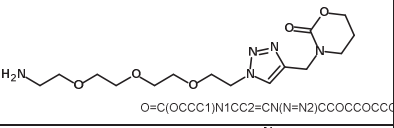
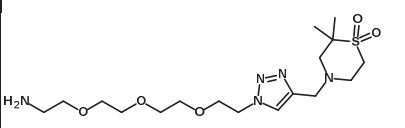
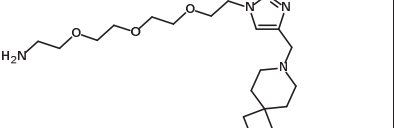
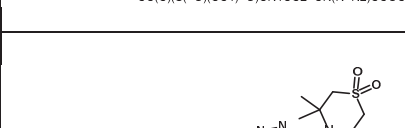
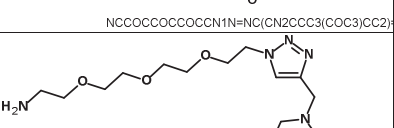
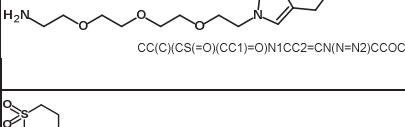
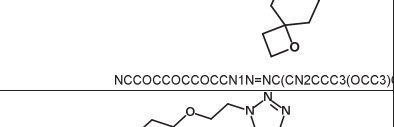
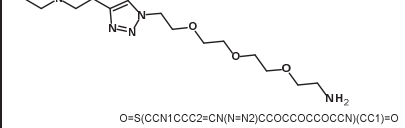
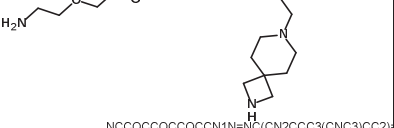
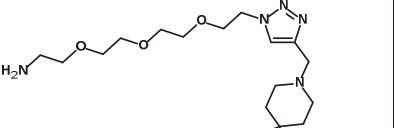
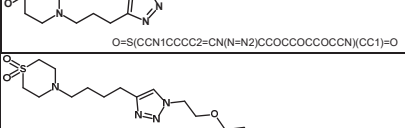
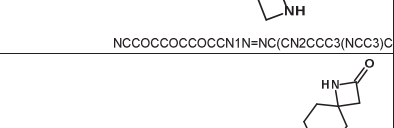
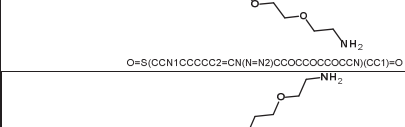
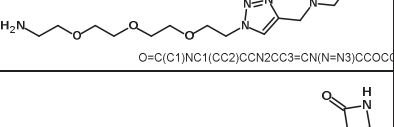
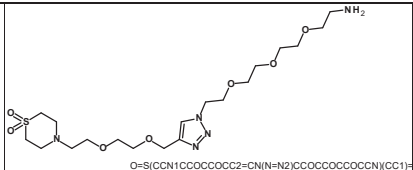
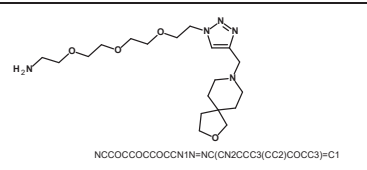
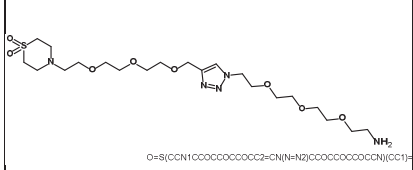
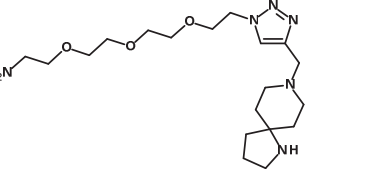
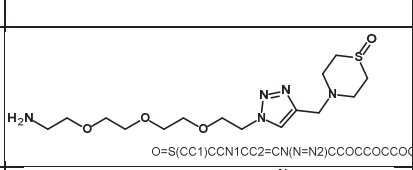
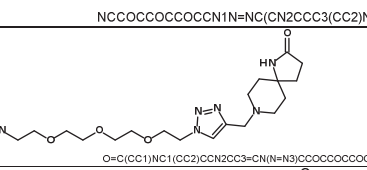
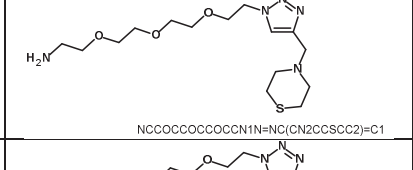
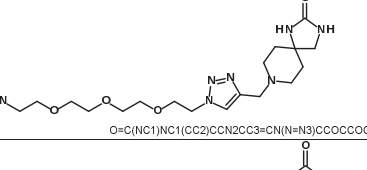
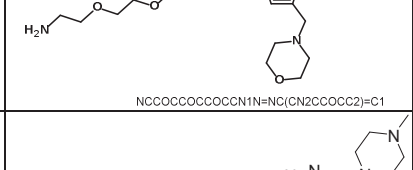
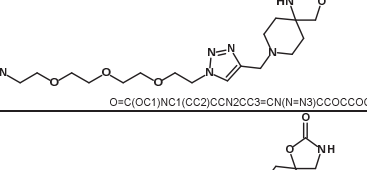
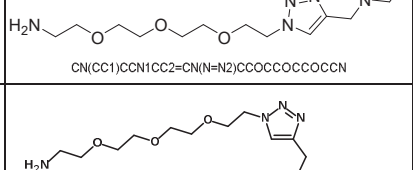
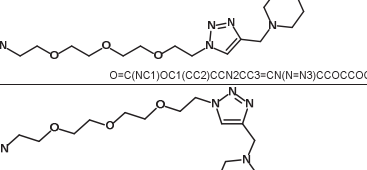
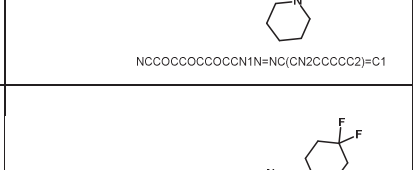
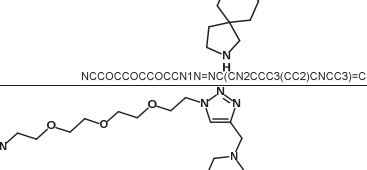
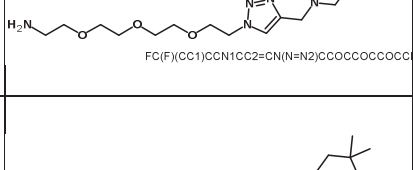
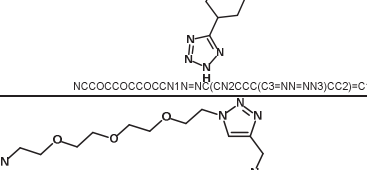
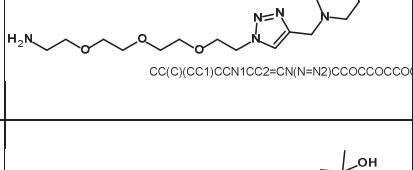
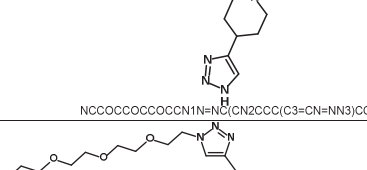
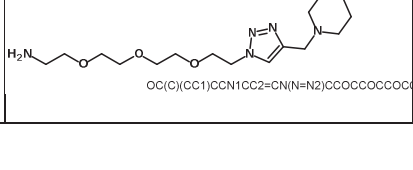
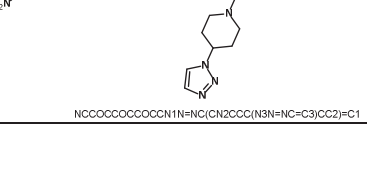
|     |                                                                                                                                             |     |                                                                                                                                         |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------|
| 788 | <br><chem>CC(S(=O)(=O)CC1=O)CN1CC2=CN(N=N2)CCOC</chem>     | 798 | <br><chem>O=C(NCCC1)N1CC2=CN(N=N2)CCOC</chem>         |
| 789 | <br><chem>CC(S(=O)(=O)CC1C=O)CN1CC2=CN(N=N2)CCOC</chem>    | 799 | <br><chem>CC(C)(CNC1=O)N1CC2=CN(N=N2)CCOC</chem>      |
| 790 | <br><chem>CC(CS(=O)(=O)CC1C=O)N1CC2=CN(N=N2)CCOC</chem>    | 800 | <br><chem>O=C(OCCC1)N1CC2=CN(N=N2)CCOC</chem>         |
| 791 | <br><chem>CC(C)(S(=O)(=O)CC1C=O)CN1CC2=CN(N=N2)CCOC</chem> | 801 | <br><chem>NCCOC</chem>                                |
| 792 | <br><chem>CC(C)(CS(=O)(=O)CC1C=O)N1CC2=CN(N=N2)CCOC</chem> | 802 | <br><chem>NCCOC</chem>                                |
| 793 | <br><chem>O=S(CCN1CCC2=CN(N=N2)CCOC)CCOC</chem>           | 803 | <br><chem>NCCOC</chem>                               |
| 794 | <br><chem>O=S(CCN1CCC2=CN(N=N2)CCOC)CCOC</chem>          | 804 | <br><chem>NCCOC</chem>                              |
| 795 | <br><chem>O=S(CCN1CCC2=CN(N=N2)CCOC)CCOC</chem>          | 805 | <br><chem>O=C(C1)NC1(C2)CCN2CC3=CN(N=N3)CCOC</chem> |
| 796 | <br><chem>O=S(CCN1CCC2=CN(N=N2)CCOC)CCOC</chem>          | 806 | <br><chem>O=C(NC1)C1(C2)CCN2CC3=CN(N=N3)CCOC</chem> |
| 797 | <br><chem>O=S(CCN1CCC2=CN(N=N2)CCOC)CCOC</chem>          | 807 | <br><chem>NCCOC</chem>                              |

FIGURE 2N

|     |                                                                                                                                                       |     |                                                                                                                                                     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 808 | <br><chem>O=S(=O)(CC1CCOCCOCC2=CN(N=N2)CCOCCOCCOCCN)(CC1)F</chem>    | 818 | <br><chem>NCCOCCOCCOCCN1N=NC(CN2CC3(C)C2)C(C)C3=C1</chem>         |
| 809 | <br><chem>O=S(=O)(CC1CCOCCOCCOCC2=CN(N=N2)CCOCCOCCOCCN)(CC1)F</chem> | 819 | <br><chem>NCCOCCOCCOCCN1N=NC(CN2CCC3(C)C2)NC</chem>               |
| 810 | <br><chem>O=S(=O)(CC1CCN1CC2=CN(N=N2)CCOCCOCCOCCN)F</chem>           | 820 | <br><chem>O=C(C(C1)NC1(C)C2)CCN2CC3=CN(N=N3)CCOCCOCCOCCN</chem>   |
| 811 | <br><chem>NCCOCCOCCOCCN1N=NC(CN2CCSCC2)=C1</chem>                    | 821 | <br><chem>O=C(C(C1)NC1(C)C2)CCN2CC3=CN(N=N3)CCOCCOCCOCCN</chem>   |
| 812 | <br><chem>NCCOCCOCCOCCN1N=NC(CN2CCOCC2)=C1</chem>                   | 822 | <br><chem>O=C(C(C1)NC1(C)C2)CCN2CC3=CN(N=N3)CCOCCOCCOCCN</chem>  |
| 813 | <br><chem>CN(C(C1)CCN1CC2=CN(N=N2)CCOCCOCCOCCN)F</chem>            | 823 | <br><chem>O=C(C(C1)NC1(C)C2)CCN2CC3=CN(N=N3)CCOCCOCCOCCN</chem> |
| 814 | <br><chem>NCCOCCOCCOCCN1N=NC(CN2CCCCC2)=C1</chem>                  | 824 | <br><chem>NCCOCCOCCOCCN1N=NC(CN2CCC3(C)C2)CNC3=C1</chem>        |
| 815 | <br><chem>FC(F)(CC1)CCN1CC2=CN(N=N2)CCOCCOCCOCCOCCN</chem>         | 825 | <br><chem>NCCOCCOCCOCCN1N=NC(CN2CCC3(C)C2)CNC3=C1</chem>        |
| 816 | <br><chem>CC(C)(CC1)CCN1CC2=CN(N=N2)CCOCCOCCOCCOCCN</chem>         | 826 | <br><chem>NCCOCCOCCOCCN1N=NC(CN2CCC3(C)C2)CNC3=C1</chem>        |
| 817 | <br><chem>OC(C)(CC1)CCN1CC2=CN(N=N2)CCOCCOCCOCCOCCN</chem>         | 827 | <br><chem>NCCOCCOCCOCCN1N=NC(CN2CCC3(N)C3=NC(C)C2)=C1</chem>    |

**FIGURE 20**

|     |                                           |     |                                            |
|-----|-------------------------------------------|-----|--------------------------------------------|
| 828 | <br>O=S(CCN1CC2=CN(N=N)CCOCCOCCOCCN)(CO   | 835 | <br>NCCOCCOCCOCCN1N=NC(C2CCC(N3N=CC=N3)C   |
| 829 | <br>CN(CCS(=O)(C)=O)CC1=CN(N=N1)CCOCCOCCO | 836 | <br>C(Si)(C(C(C1)CCN1CC2=CN(N=N2)CCOCCOCCO |
| 830 | <br>H <sub>2</sub> N                      | 837 | <br>NH                                     |
| 831 | <br>H <sub>2</sub> N                      | 838 | <br>NH                                     |

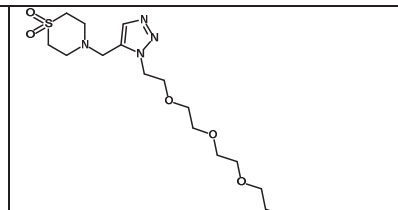
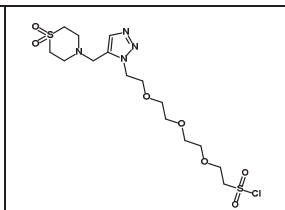
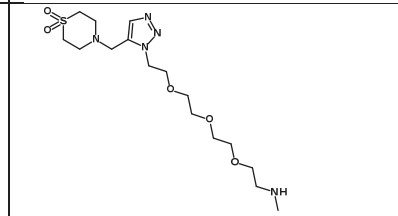
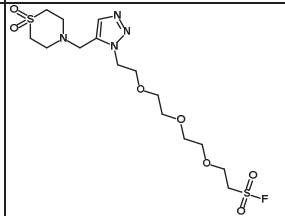
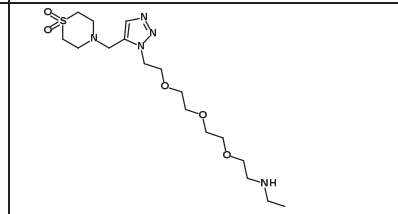
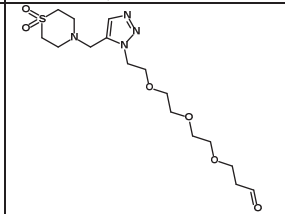
|                                                                                                                                                             |                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>832</p>  <p><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCN)(CC1)=O</chem></p>    | <p>839</p>  <p><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCCS(=O)(=O)Cl)(CC1)=O</chem></p> |
| <p>833</p>  <p><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCN)(CC1)=O</chem></p>   | <p>840</p>  <p><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCCS(=O)(=O)F)(CC1)=O</chem></p> |
| <p>834</p>  <p><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCNCC)(CC1)=O</chem></p> | <p>841</p>  <p><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCC(F)=O)(CC1)=O</chem></p>      |

FIGURE 2P

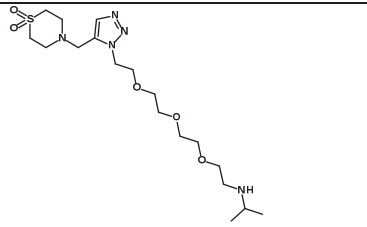
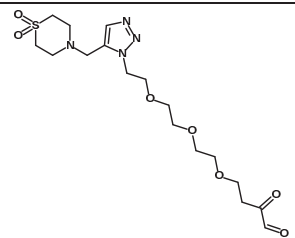
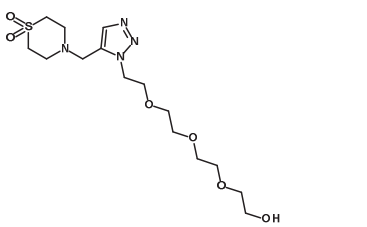
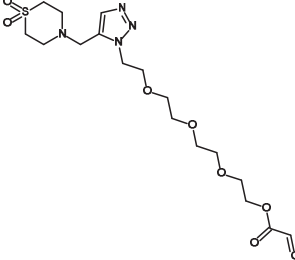
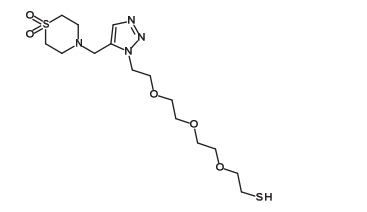
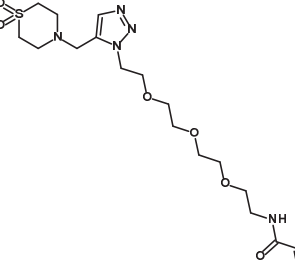
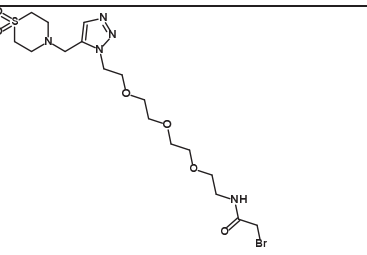
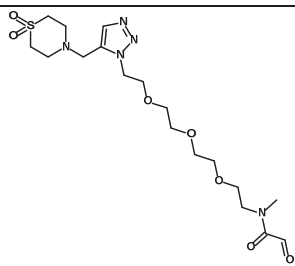
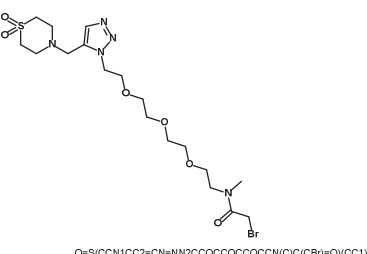
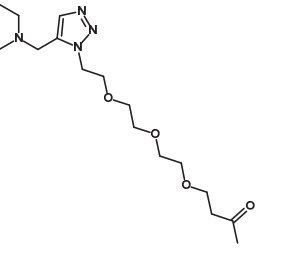
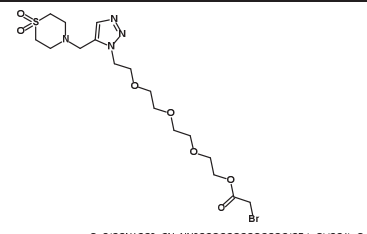
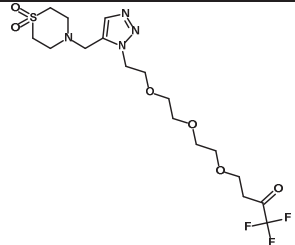
|     |                                                                                                                                                   |     |                                                                                                                                                    |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 842 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCCN(C)C)(CC1)=O</chem>   | 848 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCC(=O)O)(CC1)=O</chem>   |
| 843 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCCO)(CC1)=O</chem>       | 849 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCC(=O)O)(CC1)=O</chem>   |
| 844 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCCS)(CC1)=O</chem>       | 850 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCC(=O)O)(CC1)=O</chem>   |
| 845 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCC(=O)O)(CC1)=O</chem>  | 851 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCC(=O)O)(CC1)=O</chem>  |
| 846 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCC(=O)O)(CC1)=O</chem> | 852 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCC(=O)O)(CC1)=O</chem> |
| 847 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCC(=O)O)(CC1)=O</chem> | 853 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCC(=O)O)(CC1)=O</chem> |

FIGURE 2Q

|     |                                                          |     |                                                         |
|-----|----------------------------------------------------------|-----|---------------------------------------------------------|
| 854 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCNC(C)=O)C1</chem> | 860 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCC[N+]#N)C1</chem> |
| 855 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCNC(C)=O)C1</chem> | 861 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOC)C1</chem>     |
| 856 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCNC(C)=O)C1</chem> | 862 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCC(=O)O)C1</chem>  |
| 857 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCNC(C)=O)C1</chem> | 863 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCC(=O)O)C1</chem>  |
| 858 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCNC(C)=O)C1</chem> | 864 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCC(=O)O)C1</chem>  |
| 859 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCNC(C)=O)C1</chem> | 865 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCC(=O)O)C1</chem>  |

FIGURE 2R

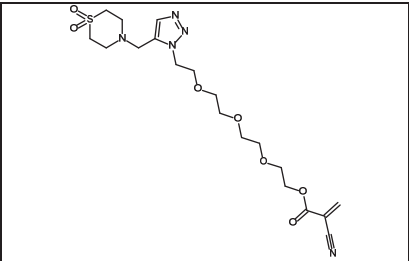
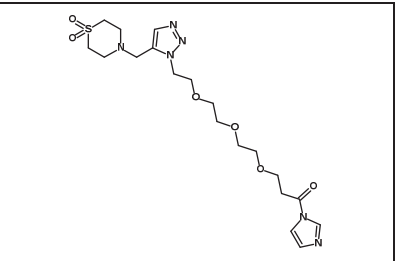
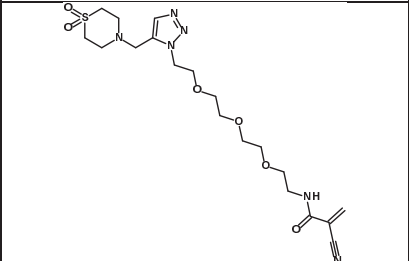
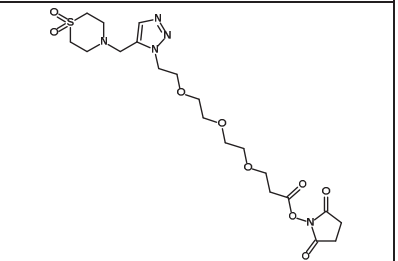
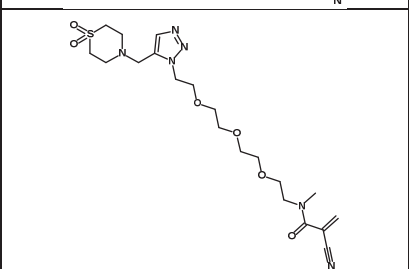
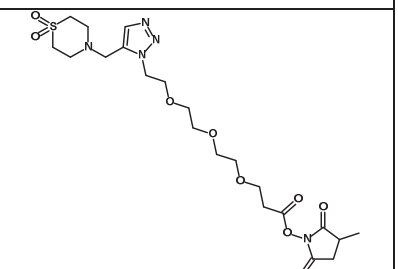
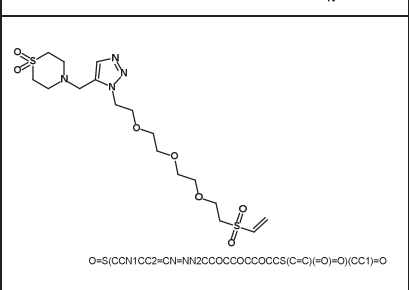
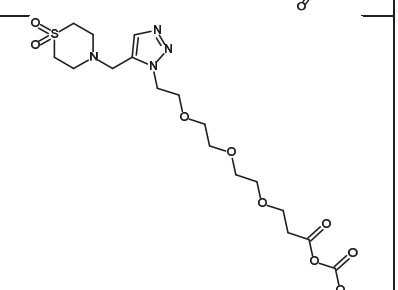
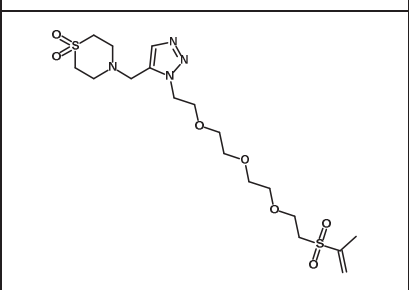
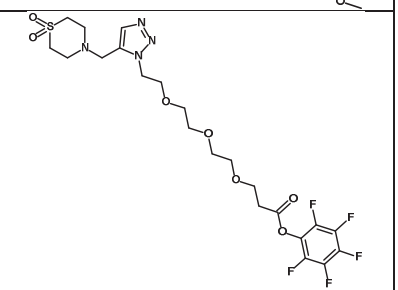
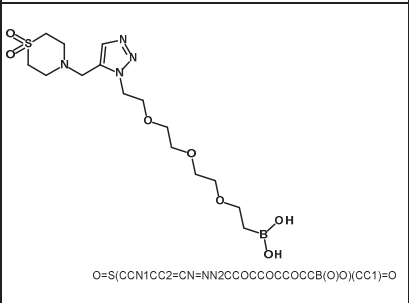
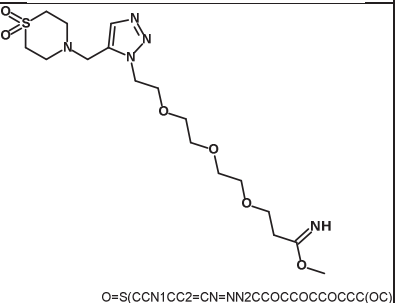
|     |                                                                                                                                                      |     |                                                                                                                                                 |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 866 |                                                                     | 872 |                                                               |
| 867 |                                                                     | 873 |                                                               |
| 868 |                                                                     | 874 |                                                               |
| 869 | <br><chem>O=S(CCN1CC2=CN=NN2COCOCOCOCOCSC(C)=C(=O)O)(CC1)=O</chem> | 875 |                                                              |
| 870 |                                                                   | 876 |                                                             |
| 871 | <br><chem>O=S(CCN1CC2=CN=NN2COCOCOCOCOCB(O)O)(CC1)=O</chem>       | 877 | <br><chem>O=S(CCN1CC2=CN=NN2COCOCOCOCOC(OC)O)(CC1)=O</chem> |

FIGURE 2S

|     |  |     |  |
|-----|--|-----|--|
| 878 |  | 883 |  |
| 879 |  | 884 |  |
| 880 |  | 885 |  |
| 881 |  | 886 |  |
| 882 |  | 887 |  |

FIGURE 2T

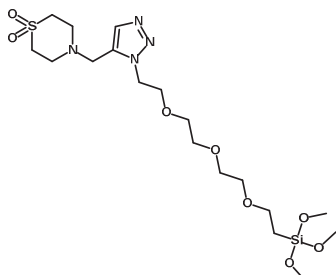
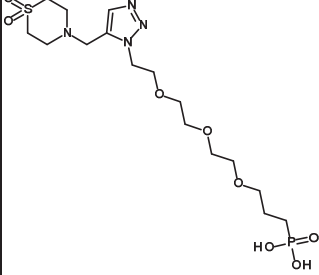
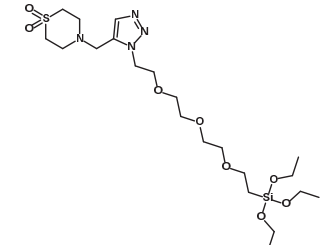
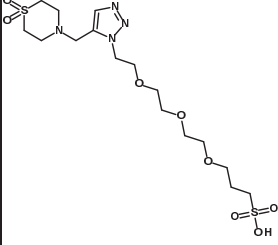
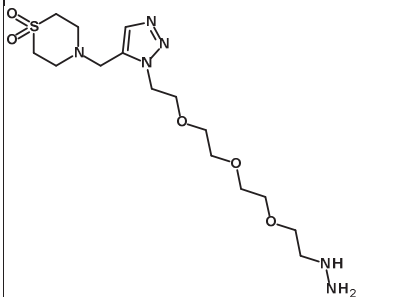
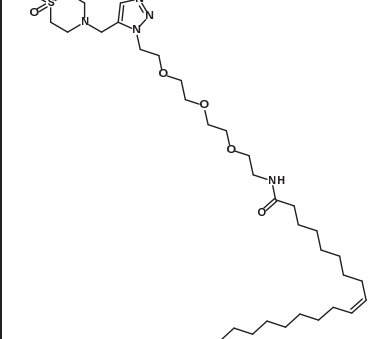
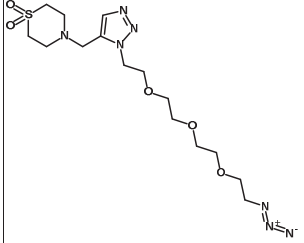
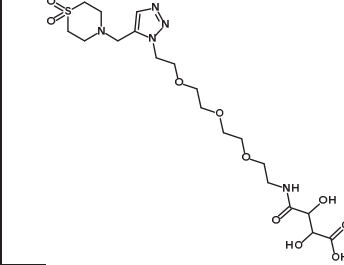
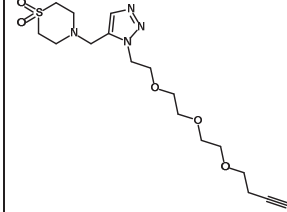
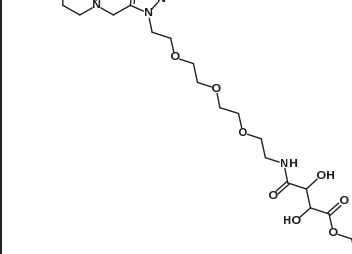
|     |                                                                                                                                                              |     |                                                                                                                                                         |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 888 |                                                                             | 893 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOP(=O)(O)O)=</chem>            |
| 889 |                                                                             | 894 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCCS(=O)(=O)O)(O)O)(CC1)=</chem> |
| 890 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCN)=</chem>                          | 895 |                                                                      |
| 891 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCC[N+]=[N-])([N+]=[N-])(CC1)=</chem> | 896 |                                                                     |
| 892 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCC#C)(CC1)=O</chem>                  | 897 |                                                                     |

FIGURE 2U

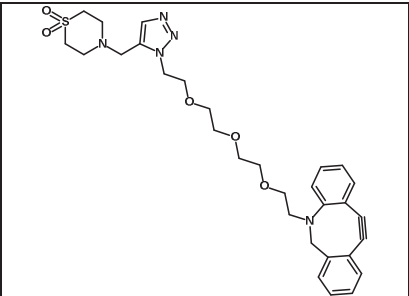
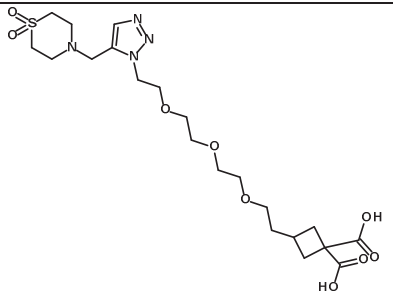
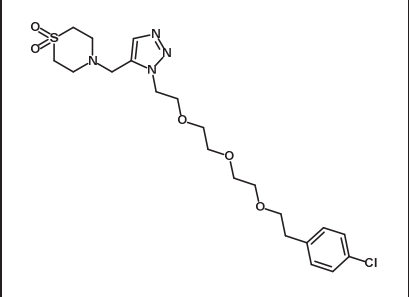
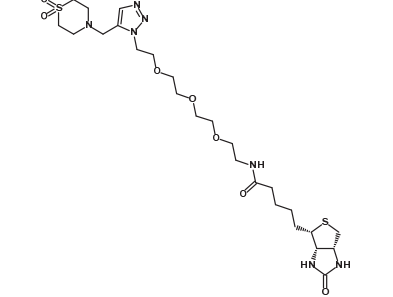
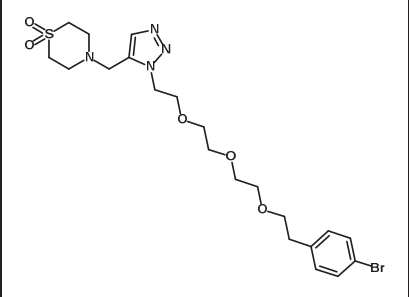
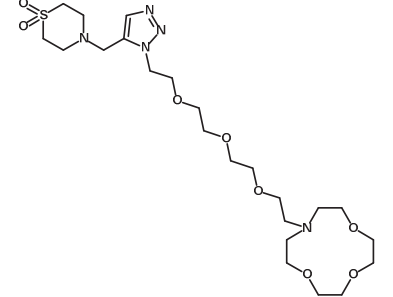
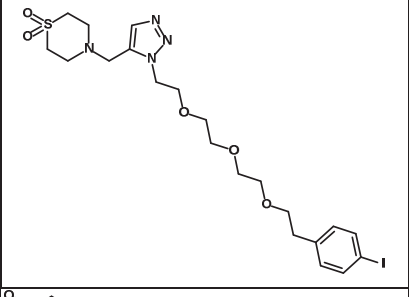
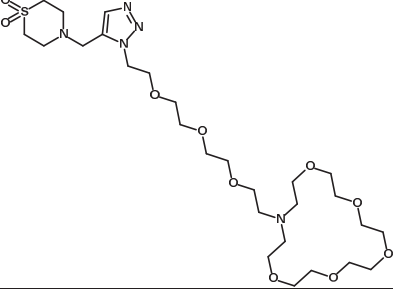
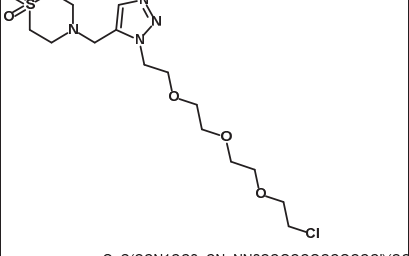
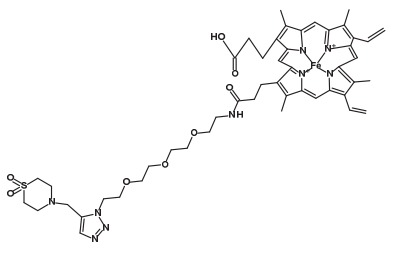
|     |                                                                                                                                       |     |                                                                                      |
|-----|---------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------|
| 898 |                                                      | 903 |    |
| 899 |                                                      | 904 |    |
| 900 |                                                     | 905 |   |
| 901 |                                                    | 906 |  |
| 902 | <br><chem>O=S(CCNC2=CN=NN2CCOCCOCCOCCCl)(CC</chem> | 907 |  |

FIGURE 2V

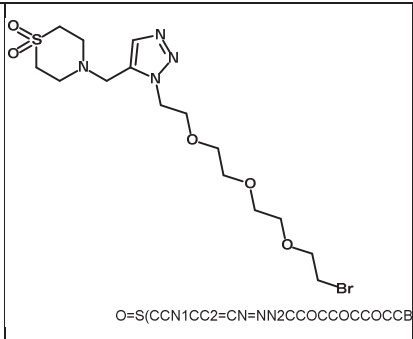
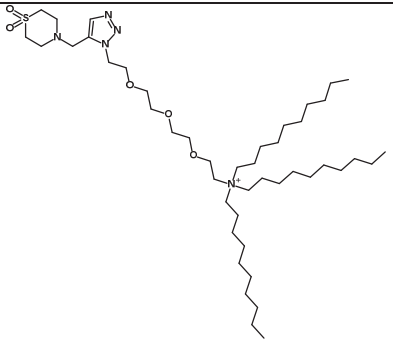
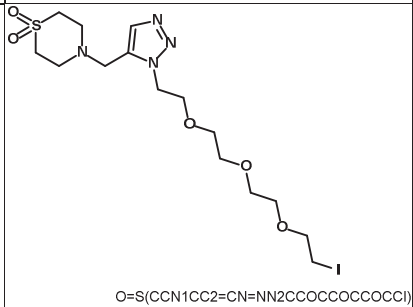
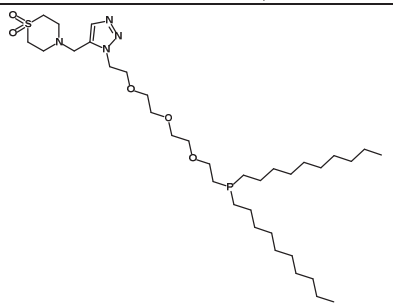
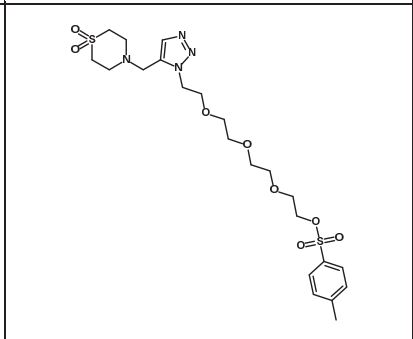
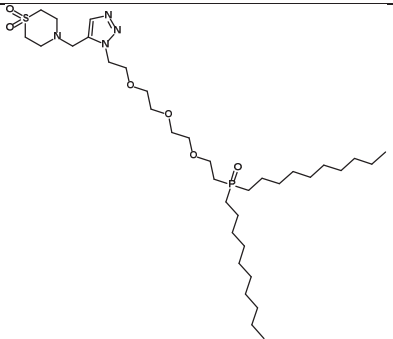
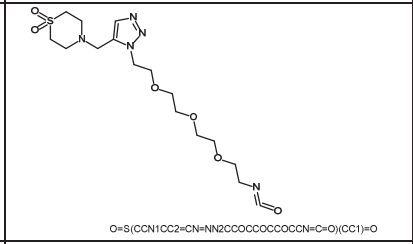
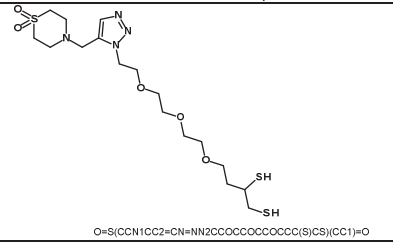
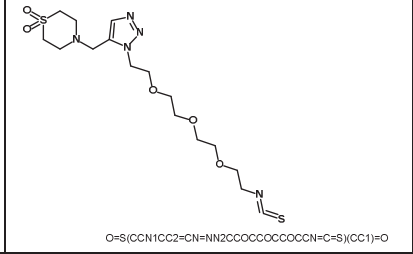
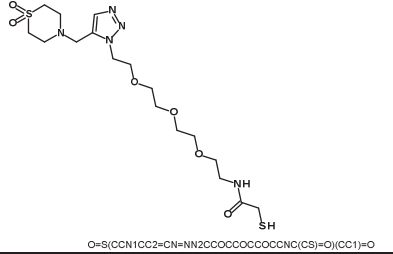
|     |                                                                                                                                                |     |                                                                                                                                                       |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 908 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCBr)</chem>             | 913 |                                                                     |
| 909 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOI)</chem>             | 914 |                                                                     |
| 910 |                                                              | 915 |                                                                    |
| 911 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCN=C=O)(CC1)=O</chem> | 916 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCSCS)(CS)(CC1)=O</chem>     |
| 912 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCNC=S)(CC1)=O</chem>  | 917 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCNC(=S)S)(CS)(CC1)=O</chem> |

FIGURE 2W

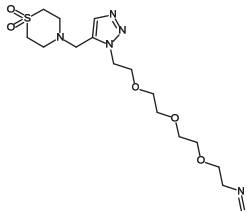
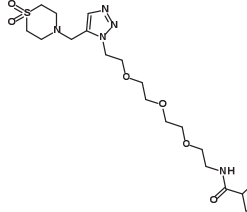
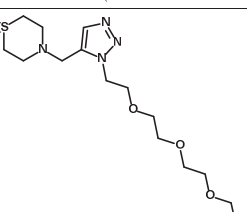
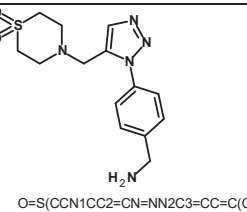
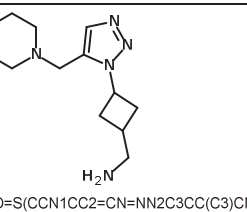
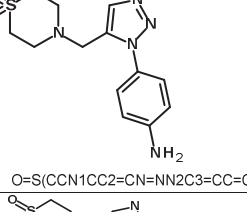
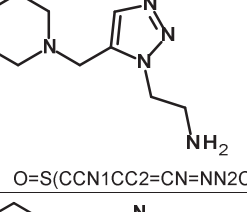
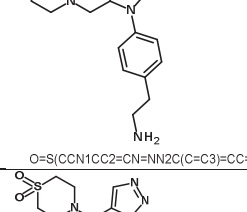
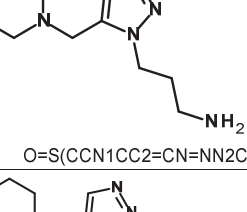
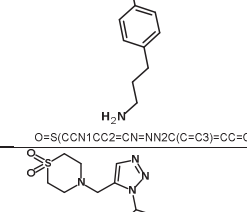
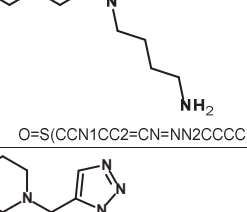
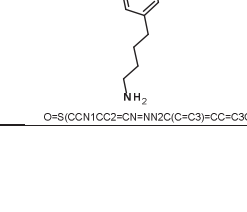
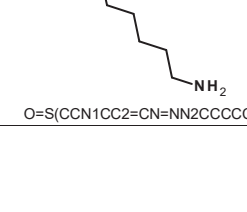
|     |                                                                                                                                               |     |                                                                                                                                             |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------|
| 918 | <br><chem>O=S(CCN1CC2=CN=NN2COCOCOCOCN=C)CC1=O</chem>        | 925 | <br><chem>O=S(CCN1CC2=CN=NN2COCOCOCOCOC(=O)O)CC1=O</chem> |
| 919 | <br><chem>O=S(CCN1CC2=CN=NN2COCOCOCOCOC3OC3)CC1=O</chem>     |     |                                                                                                                                             |
| 920 | <br><chem>O=S(CCN1CC2=CN=NN2C3CC(C3)CN)CC1=O</chem>          | 926 | <br><chem>O=S(CCN1CC2=CN=NN2C3CC(C3)CN)CC1=O</chem>       |
| 921 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)N)CC1=O</chem>    | 927 | <br><chem>O=S(CCN1CC2=CN=NN2CCN)CC1=O</chem>            |
| 922 | <br><chem>O=S(CCN1CC2=CN=NN2C(C=C3)=CC=C3CCN)CC1=O</chem>  | 928 | <br><chem>O=S(CCN1CC2=CN=NN2CCCN)CC1=O</chem>           |
| 923 | <br><chem>O=S(CCN1CC2=CN=NN2C(C=C3)=CC=C3CCCN)CC1=O</chem> | 929 | <br><chem>O=S(CCN1CC2=CN=NN2CCCCN)CC1=O</chem>          |
| 924 | <br><chem>O=S(CCN1CC2=CN=NN2C(C=C3)=CC=C3CCCN)CC1=O</chem> | 930 | <br><chem>O=S(CCN1CC2=CN=NN2CCCCCN)CC1=O</chem>         |

FIGURE 2X

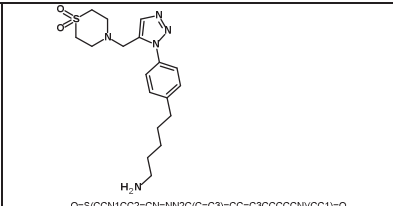
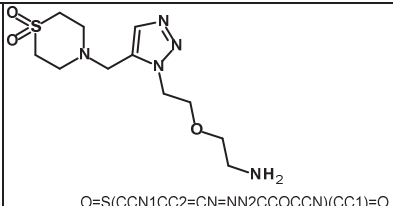
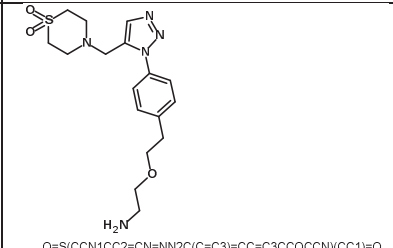
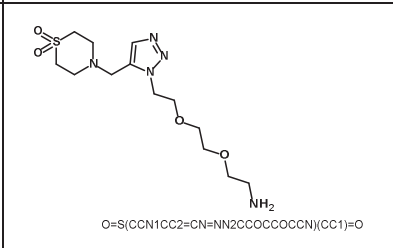
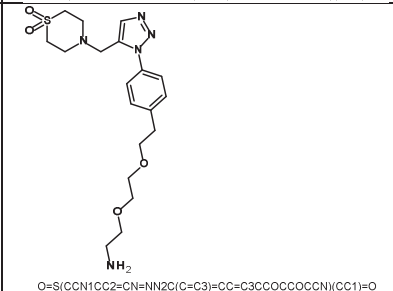
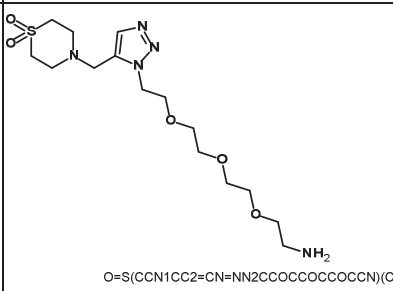
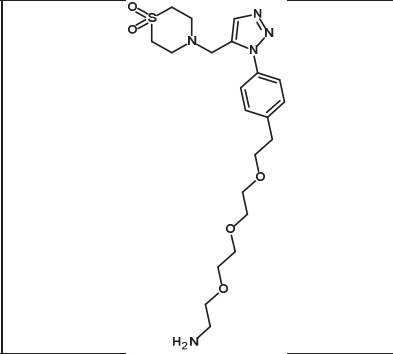
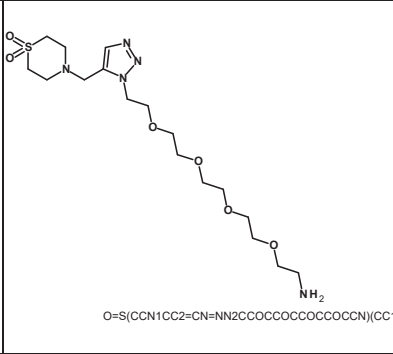
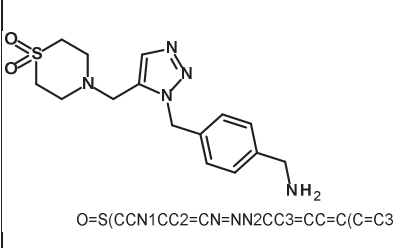
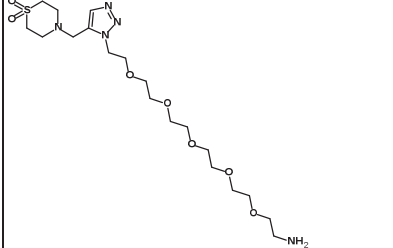
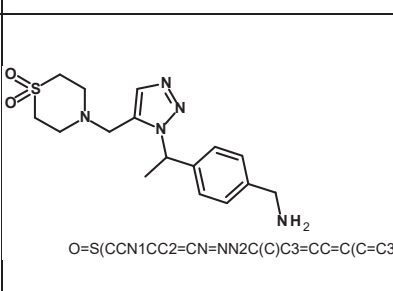
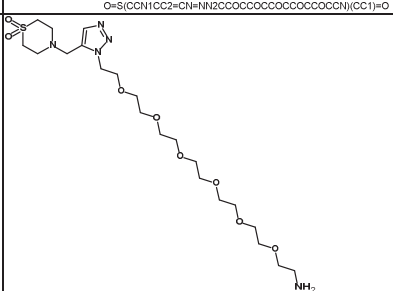
|     |                                                                                                                                                        |     |                                                                                                                                                      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 931 | <br><chem>O=S(CCN1CC2=CN=NN2C(C=C3)=CC=C3CCOCCN)(CC1)=O</chem>        | 937 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCN)(CC1)=O</chem>                  |
| 932 | <br><chem>O=S(CCN1CC2=CN=NN2C(C=C3)=CC=C3CCOCCN)(CC1)=O</chem>        | 938 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCN)(CC1)=O</chem>               |
| 933 | <br><chem>O=S(CCN1CC2=CN=NN2C(C=C3)=CC=C3CCOCCOCCN)(CC1)=O</chem>     | 939 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCN)(CC1)=O</chem>            |
| 934 | <br><chem>O=S(CCN1CC2=CN=NN2C(C=C3)=CC=C3CCOCCOCCOCCN)(CC1)=O</chem> | 940 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCCN)(CC1)=O</chem>        |
| 935 | <br><chem>O=S(CCN1CC2=CN=NN2CC3=CC=C(C(C=C3)C)C)C</chem>            | 941 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCCOCCN)(CC1)=O</chem>    |
| 936 | <br><chem>O=S(CCN1CC2=CN=NN2C(C)C3=CC=C(C(C=C3)C)C)C</chem>         | 942 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCOCCOCCOCCN)(CC1)=O</chem> |

FIGURE 2Y

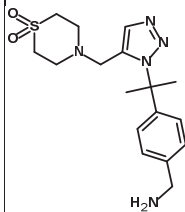
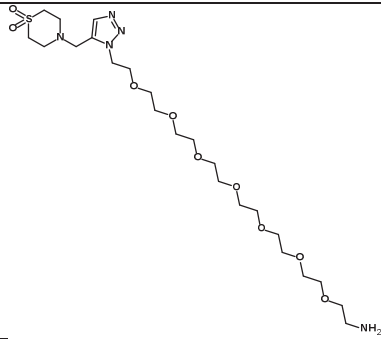
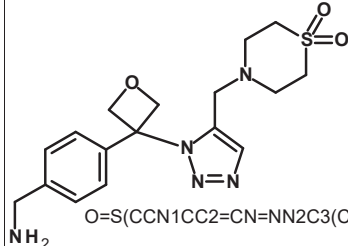
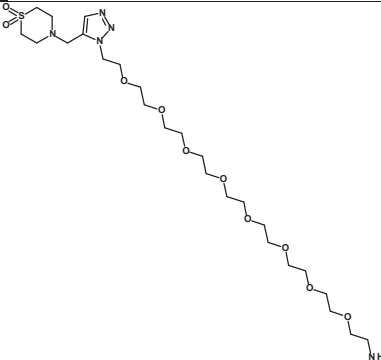
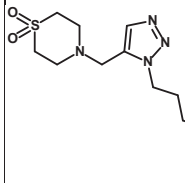
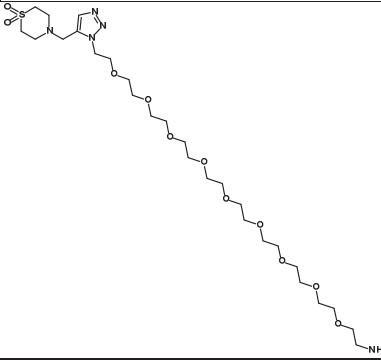
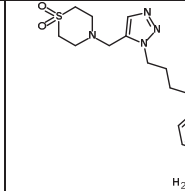
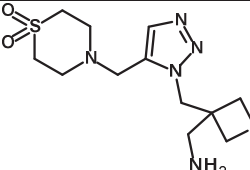
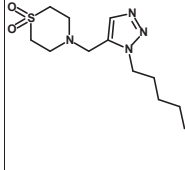
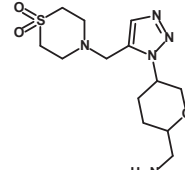
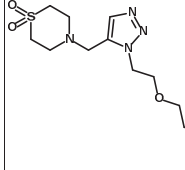
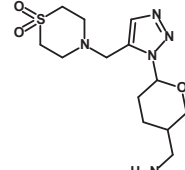
|     |                                                                                                                                                   |     |                                                                                                                                                    |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 943 |  <chem>O=S(CCN1CC2=CN=NN2C(C)(C)C3=CC=C(C(C=C3)CN)(CC1)=O</chem> | 949 |  <chem>O=S(CCN1CC2=CN=NN2C(C)(C)C3=CC=C(C(C=C3)CN)(CC1)=O</chem> |
| 944 |  <chem>O=S(CCN1CC2=CN=NN2C3(COC3)C</chem>                        | 950 |  <chem>O=S(CCN1CC2=CN=NN2C3(COC3)C</chem>                        |
| 945 |  <chem>O=S(CCN1CC2=CN=NN2CCCC3=CC=C(C(C=C3)CN)(CC1)=O</chem>    | 951 |  <chem>O=S(CCN1CC2=CN=NN2CCCC3=CC=C(C(C=C3)CN)(CC1)=O</chem>    |
| 946 |  <chem>O=S(CCN1CC2=CN=NN2CCCC3=CC=C(C(C=C3)CN)(CC1)=O</chem>   | 952 |  <chem>O=S(CCN1CC2=CN=NN2CC3(COC3)CN)(CC1)=O</chem>            |
| 947 |  <chem>O=S(CCN1CC2=CN=NN2CCCC3=CC=C(C(C=C3)CN)(CC1)=O</chem>   | 953 |  <chem>O=S(CCN1CC2=CN=NN2C3COC(C3)CN)(CC1)=O</chem>            |
| 948 |  <chem>O=S(CCN1CC2=CN=NN2CCOCC3=CC=C(C(C=C3)CN)(CC1)=O</chem>  | 954 |  <chem>O=S(CCN1CC2=CN=NN2C3OCC(C3)CN)(CC1)=O</chem>            |

FIGURE 2Z

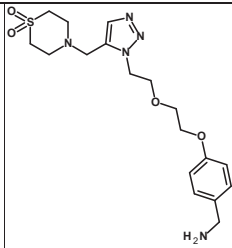
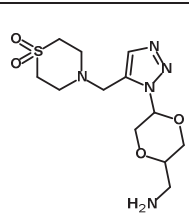
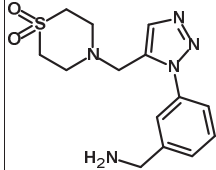
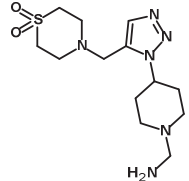
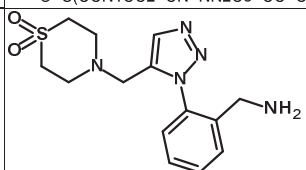
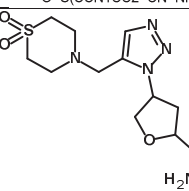
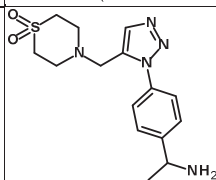
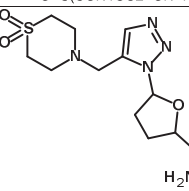
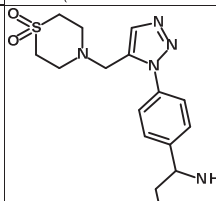
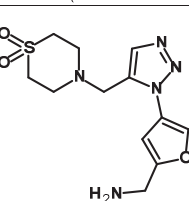
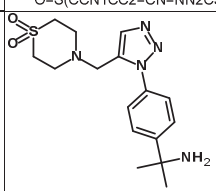
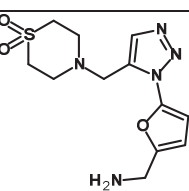
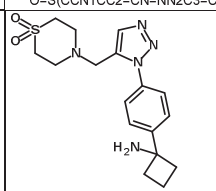
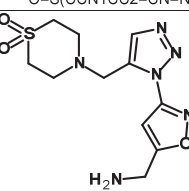
|     |                                                                                                                                                 |     |                                                                                                                                              |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------|
| 955 | <br><chem>O=S(CCN1CC2=CN=NN2COCOC3=CC=C(C=C3)CN)(CC1)=O</chem> | 962 | <br><chem>O=S(CCN1CC2=CN=NN2C3OCC(OC3)CN)(CC1)=O</chem>    |
| 956 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=CC(CN)=C3)(CC1)=O</chem>     | 963 | <br><chem>O=S(CCN1CC2=CN=NN2C3CCN(CC3)CN)(CC1)=O</chem>    |
| 957 | <br><chem>O=S(CCN1CC2=CN=NN2C3=C(C=CC=C3)CN)(CC1)=O</chem>     | 964 | <br><chem>O=S(CCN1CC2=CN=NN2C3CC(OC3)CN)(CC1)=O</chem>     |
| 958 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C(C)N)CN)(CC1)=O</chem>   | 965 | <br><chem>O=S(CCN1CC2=CN=NN2C3OC(CC3)CN)(CC1)=O</chem>    |
| 959 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C(C)N)CN)(CC1)=O</chem>  | 966 | <br><chem>O=S(CCN1CC2=CN=NN2C3=COC(CN)=C3)(CC1)=O</chem> |
| 960 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C(C)N)CN)(CC1)=O</chem>  | 967 | <br><chem>O=S(CCN1CC2=CN=NN2C(OC3=CC=C3CN)(CC1)=O</chem> |
| 961 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C(C)N)CN)(CC1)=O</chem>  | 968 | <br><chem>O=S(CCN1CC2=CN=NN2C3=NOC(CN)=C3)(CC1)=O</chem> |

FIGURE 2AA

|     |                                                                   |     |                                                                   |
|-----|-------------------------------------------------------------------|-----|-------------------------------------------------------------------|
| 969 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> | 977 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> |
| 970 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> | 978 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> |
| 971 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> | 079 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> |
| 972 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> | 980 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> |
| 973 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> | 981 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> |
| 974 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> | 982 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> |
| 975 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> | 983 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> |
| 976 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> | 984 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC=C(C=C3)C4(COC4)N)(CC1)=O</chem> |

FIGURE 2BB

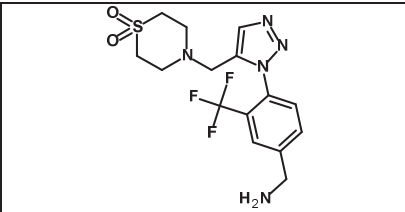
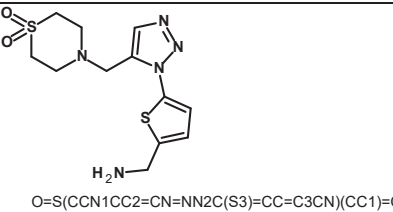
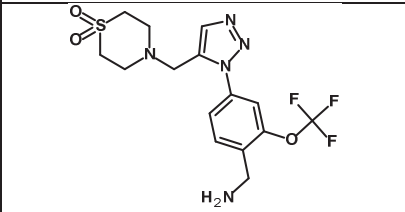
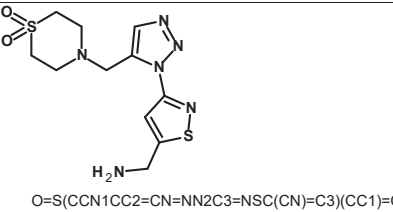
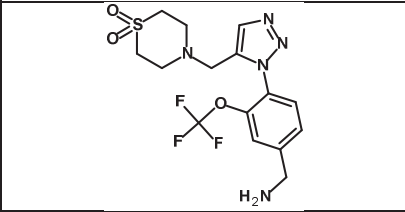
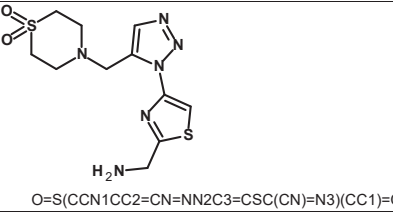
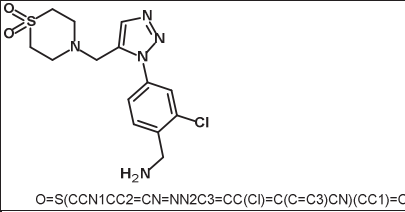
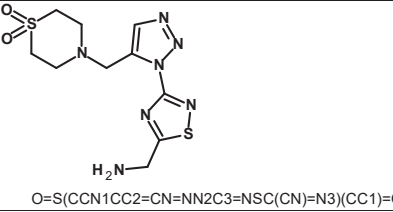
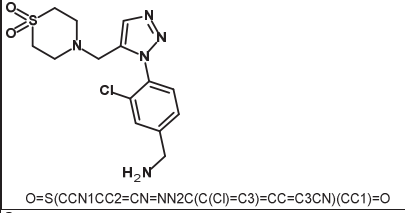
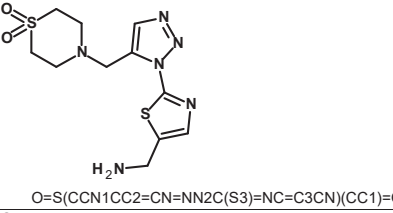
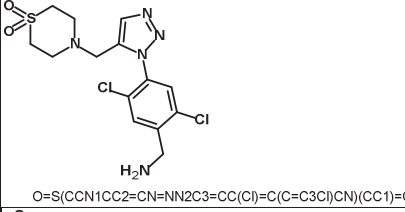
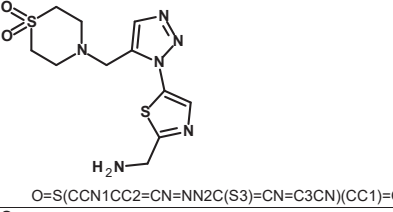
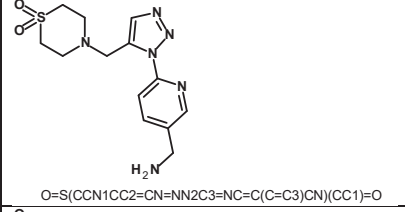
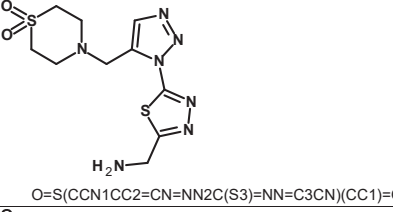
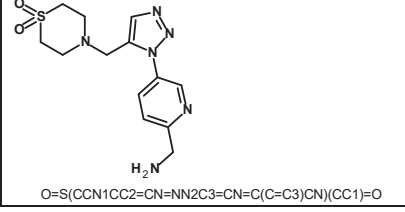
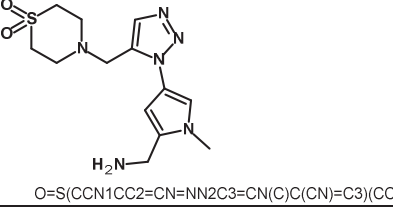
|     |                                                                                                                                                             |      |                                                                                                                                                           |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 985 |                                                                            | 993  | <br><chem>O=S(CCN1CC2=CN=NN2C(S3)=CC=C3CN)(CC1)=NC=C4SCC=C4</chem>      |
| 986 |                                                                            | 994  | <br><chem>O=S(CCN1CC2=CN=NN2C3=NSC(CN)=C3)(CC1)=NC=C4SCC=C4</chem>      |
| 987 |                                                                            | 995  | <br><chem>O=S(CCN1CC2=CN=NN2C3=CSC(CN)=N3)(CC1)=NC=C4SCC=C4</chem>      |
| 988 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC(Cl)=C(C=C3)CN)(CC1)=NC=C4SCC=C4</chem>  | 996  | <br><chem>O=S(CCN1CC2=CN=NN2C3=NSC(CN)=N3)(CC1)=NC=C4SCC=C4</chem>     |
| 989 | <br><chem>O=S(CCN1CC2=CN=NN2C(C(Cl)=C3)=CC=C3CN)(CC1)=NC=C4SCC=C4</chem> | 997  | <br><chem>O=S(CCN1CC2=CN=NN2C(S3)=NC=C3CN)(CC1)=NC=C4SCC=C4</chem>    |
| 990 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC(Cl)=C(C=C3)CN)(CC1)=NC=C4SCC=C4</chem> | 998  | <br><chem>O=S(CCN1CC2=CN=NN2C(S3)=CN=C3CN)(CC1)=NC=C4SCC=C4</chem>    |
| 991 | <br><chem>O=S(CCN1CC2=CN=NN2C3=NC=C(C=C3)CN)(CC1)=NC=C4SCC=C4</chem>     | 999  | <br><chem>O=S(CCN1CC2=CN=NN2C(S3)=NN=C3CN)(CC1)=NC=C4SCC=C4</chem>    |
| 992 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CN=C(C=C3)CN)(CC1)=NC=C4SCC=C4</chem>     | 1000 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CN(C)C(CN)=C3)(CC1)=NC=C4SCC=C4</chem> |

FIGURE 2CC

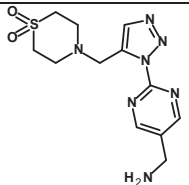
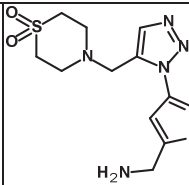
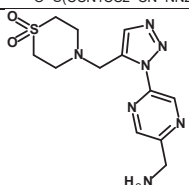
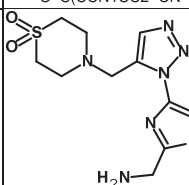
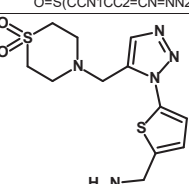
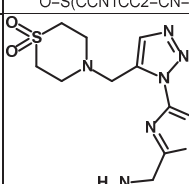
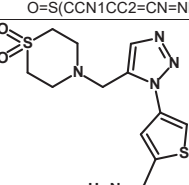
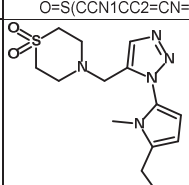
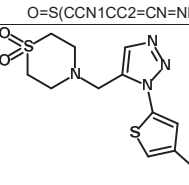
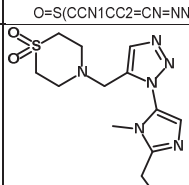
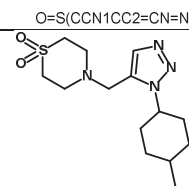
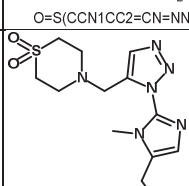
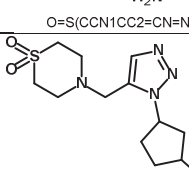
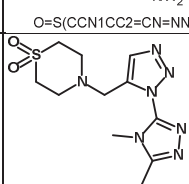
|      |                                                                                                                                             |      |                                                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1001 | <br><chem>O=S(CCN1CC2=CN=NN2C3=NC=C(C=N3)CN)(CC1)=O</chem> | 1008 | <br><chem>O=S(CCN1CC2=CN=NN2C3=NN(C)C(CN)=C3)(CC</chem>     |
| 1002 | <br><chem>O=S(CCN1CC2=CN=NN2C(N=C3)=CN=C3CN)(CC1)=O</chem> | 1009 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CN(C)C(CN)=N3)(CC</chem>     |
| 1003 | <br><chem>O=S(CCN1CC2=CN=NN2C(S3)=CC=C3CN)(CC1)=O</chem>   | 1010 | <br><chem>O=S(CCN1CC2=CN=NN2C3=NN(C)C(CN)=N3)(CC</chem>     |
| 1004 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CSC(CN)=C3)(CC1)=O</chem>   | 1011 | <br><chem>O=S(CCN1CC2=CN=NN2C(N3C)=CC=C3CN)(CC1)=O</chem>   |
| 1005 | <br><chem>O=S(CCN1CC2=CN=NN2C3=CC(CN)=CS3)(CC1)=O</chem> | 1012 | <br><chem>O=S(CCN1CC2=CN=NN2C(N3C)=CN=C3CN)(CC1)=O</chem> |
| 1006 | <br><chem>O=S(CCN1CC2=CN=NN2C3CCC(CC3)CN)(CC1)=O</chem>  | 1013 | <br><chem>O=S(CCN1CC2=CN=NN2C(N3C)=NC=C3CN)(CC1)=O</chem> |
| 1007 | <br><chem>O=S(CCN1CC2=CN=NN2C3CC(CC3)CN)(CC1)=O</chem>   | 1014 | <br><chem>O=S(CCN1CC2=CN=NN2C(N3C)=NN=C3CN)(CC1)=O</chem> |

FIGURE 2DD

|      |  |      |  |
|------|--|------|--|
| 1015 |  | 1023 |  |
| 1016 |  | 1024 |  |
| 1017 |  | 1025 |  |
| 1018 |  | 1026 |  |
| 1019 |  | 1027 |  |
| 1020 |  | 1028 |  |
| 1021 |  | 1029 |  |
| 1022 |  | 1030 |  |

FIGURE 2EE

|      |                                                           |      |                                                        |
|------|-----------------------------------------------------------|------|--------------------------------------------------------|
| 1031 | <br><chem>CC(S(=O)(CC1)=O)CN1CC2=CN=NN2COCOCOCOCN</chem>  | 1038 | <br><chem>CC(C)(CNC1=O)CN1CC2=CN=NN2COCOCOCOC</chem>   |
| 1032 | <br><chem>CC(S(=O)(C(C1C)=O)CN1CC2=CN=NN2COCOCOCOC</chem> | 1039 | <br><chem>O=C(OCCCN1)N1CC2=CN=NN2COCOCOC</chem>        |
| 1033 | <br><chem>CC(CS(=O)(CC1C)=O)N1CC2=CN=NN2COC</chem>        | 1040 | <br><chem>NCCOCCOCCOCCN1N=NC=C1CN2CCC3(COC3)CC2</chem> |
| 1034 | <br><chem>CC(C)(S(=O)(CC1)=O)CN1CC2=CN=NN2COC</chem>      | 1041 | <br><chem>NCCOCCOCCOCCN1N=NC=C1CN2CCC3(OCC3)CC2</chem> |
| 1035 | <br><chem>CC(C)(CS(=O)(CC1)=O)N1CC2=CN=NN2COCOCOC</chem>  | 1042 | <br><chem>NCCOCCOCCOCCN1N=NC=C1CN2CCC3(CNC3)CC2</chem> |
| 1036 | <br><chem>O=S(CCN1CCC2=CN=NN2COCOCOCOCN)(CC1)=O</chem>    | 1043 | <br><chem>NCCOCCOCCOCCN1N=NC=C1CN2CCC3(NCC3)CC2</chem> |
| 1037 | <br><chem>O=S(CCN1CCCC2=CN=NN2COCOCOCOCN)(CC1)=O</chem>   | 1044 | <br><chem>O=C(C1)NC1(CC2)CCN2CC3=CN=NN3COCOCOC</chem>  |

**FIGURE 2FF**

|      |                                                                |      |  |
|------|----------------------------------------------------------------|------|--|
| 1045 | <br><chem>O=S(=O)(CCN1CCCCC2=CN=NN2CCCCCCCCCOCN)(CC1)=O</chem> | 1052 |  |
| 1046 |                                                                | 1053 |  |
| 1047 |                                                                | 1054 |  |
| 1048 | <br><chem>O=S(=O)(CCN1CCCCC2=CN=NN2CCCCCCCCCOCN)(CC1)=O</chem> | 1055 |  |
| 1049 |                                                                | 1056 |  |
| 1050 |                                                                | 1057 |  |
| 1051 |                                                                | 1058 |  |

FIGURE 2GG

|      |  |      |  |
|------|--|------|--|
| 1059 |  | 1064 |  |
| 1060 |  | 1065 |  |
| 1061 |  | 1066 |  |
| 1062 |  | 1067 |  |
| 1063 |  | 1068 |  |

FIGURE 2HH

|      |                                                             |      |                                                             |
|------|-------------------------------------------------------------|------|-------------------------------------------------------------|
| 1069 | <br><chem>OC(C)(CC1)CCN1CC2=CN=NN2CCOCCOCCN</chem>          | 1073 | <br><chem>NCCOCCOCCOCCCN1N=NC=C1CN2CCC(N3N=CC=N3)CC2</chem> |
| 1070 | <br><chem>O=S(CCN1CC2=CN=NN2CCOCCOCCOCCCN)(CCC1)=O</chem>   | 1074 | <br><chem>C[Si](C)(CC1)CCN1CC2=CN=NN2CCOCCOCCN</chem>       |
| 1071 | <br><chem>CN(CCS(=O)(C)=O)(C=O)CC1=CN=NN1CCO</chem>         | 1075 | <br><chem>NCCOCCOCCOCCCN1N=NC=C1CN2CCC(N3N=CC=N3)CC2</chem> |
| 1072 | <br><chem>NCCOCCOCCOCCCN1N=NC=C1CN2CCC(N3N=CC=N3)CC2</chem> | 1076 | <br><chem>NCCOCCOCCOCCCN1N=NC=C1CN2CCC(N3N=CC=N3)CC2</chem> |

**FIGURE 3A**

|      |                                       |      |                                        |
|------|---------------------------------------|------|----------------------------------------|
| 1077 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCN | 1085 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCN |
| 1078 |                                       | 1086 |                                        |
| 1079 |                                       | 1087 |                                        |
| 1080 |                                       | 1088 |                                        |
| 1081 |                                       | 1089 |                                        |
| 1082 |                                       | 1090 |                                        |
| 1083 |                                       | 1091 |                                        |
| 1084 |                                       | 1092 |                                        |

FIGURE 3B

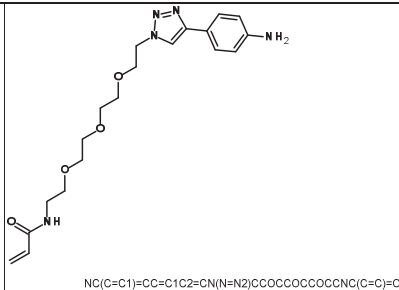
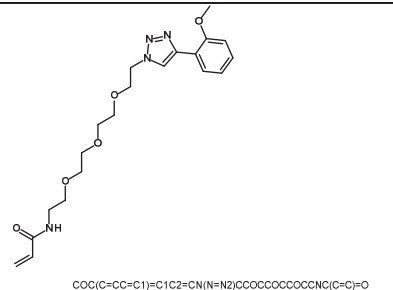
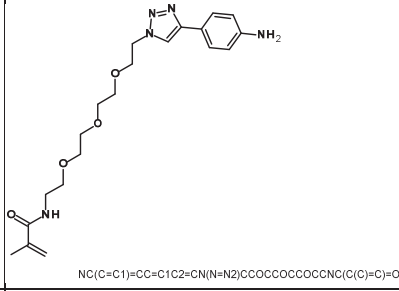
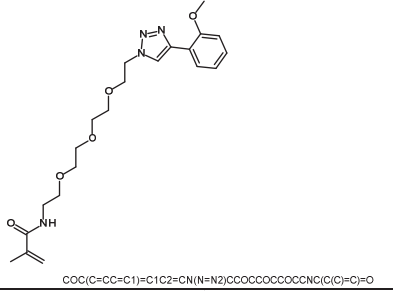
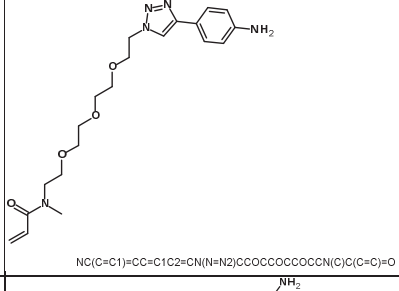
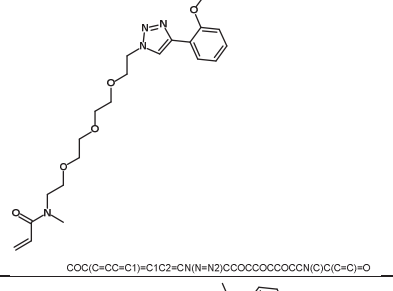
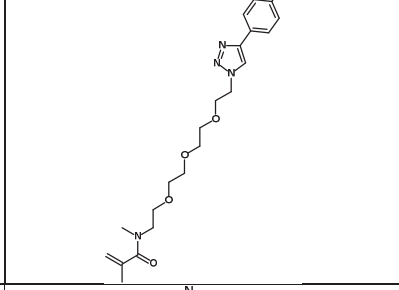
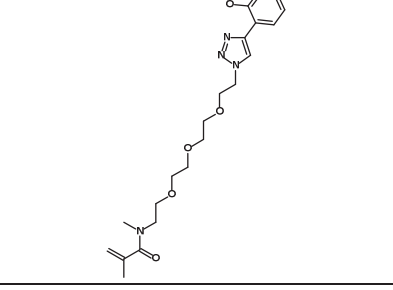
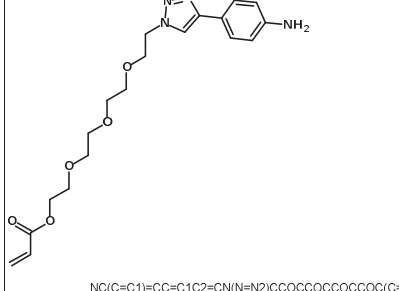
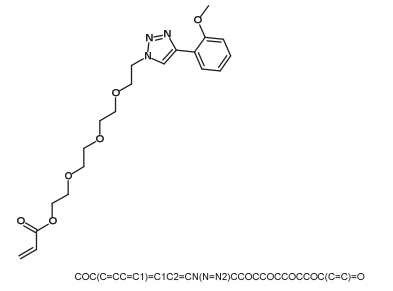
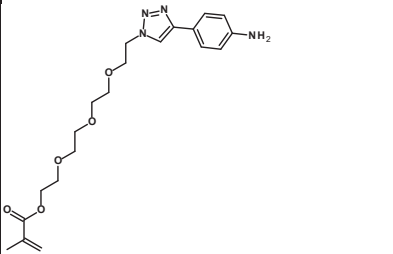
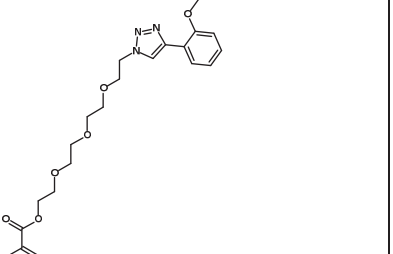
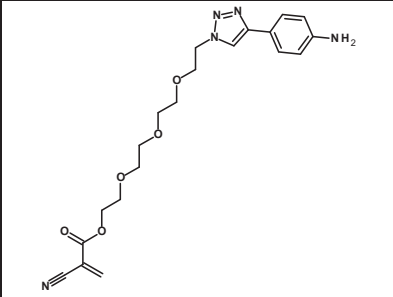
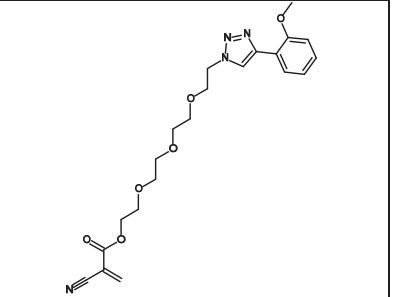
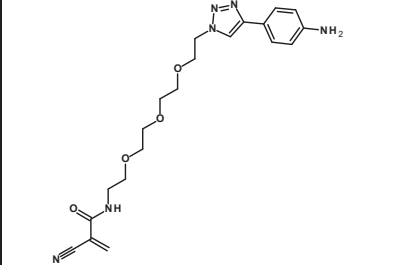
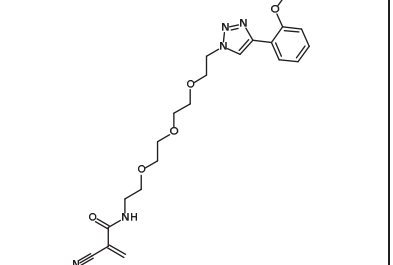
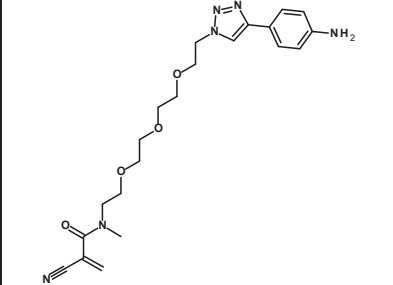
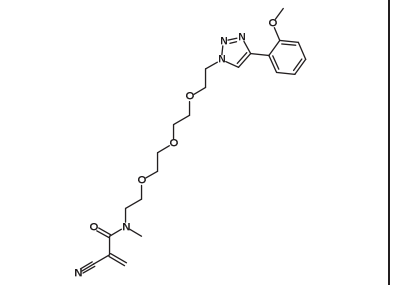
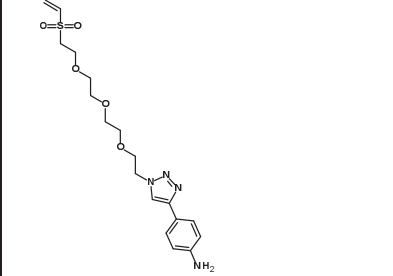
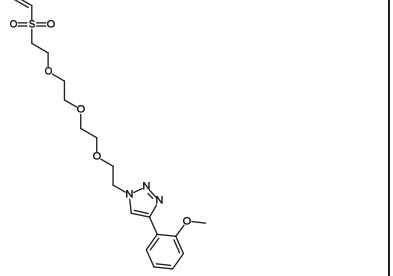
|      |                                                                                                                                                      |      |                                                                                                                                                           |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1093 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCNC(C=O)=O</chem>      | 1098 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOCNC(C=O)=O</chem>         |
| 1094 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCNC(C(C)=O)=O</chem>   | 1099 | <br><chem>COC(C(C)=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOCNC(C(C)=O)=O</chem>   |
| 1095 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCNC(C(C)=O)=O</chem>  | 1100 | <br><chem>COC(C(C)=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOCNC(C(C)=O)=O</chem>  |
| 1096 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCNC(C(C)=O)=O</chem> | 1101 | <br><chem>COC(C(C)=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOCNC(C(C)=O)=O</chem> |
| 1097 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCNC(C(C)=O)=O</chem> | 1102 | <br><chem>COC(C(C)=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOCNC(C(C)=O)=O</chem> |

FIGURE 3C

|      |                                                                                                                                                          |      |                                                                                                                                                           |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1103 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOC(C(C)=C)C(=O)O</chem>   | 1108 | <br><chem>COC(C=C=C1)=C1C2=CN(N=N2)COCOCOCOCOCOC(C(C)=C)C(=O)O</chem>   |
| 1104 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOC(C(C)=C)C(=O)O</chem>   | 1109 | <br><chem>COC(C=C=C1)=C1C2=CN(N=N2)COCOCOCOCOCOC(C(C)=C)C(=O)O</chem>   |
| 1105 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOC(C(C)=C)C(=O)O</chem>  | 1110 | <br><chem>COC(C=C=C1)=C1C2=CN(N=N2)COCOCOCOCOCOC(C(C)=C)C(=O)O</chem>  |
| 1106 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOC(C(C)=C)C(=O)O</chem> | 1111 | <br><chem>COC(C=C=C1)=C1C2=CN(N=N2)COCOCOCOCOCOC(C(C)=C)C(=O)O</chem> |
| 1107 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOC(C(C)=C)C(=O)O</chem> | 1112 | <br><chem>COC(C=C=C1)=C1C2=CN(N=N2)COCOCOCOCOCOC(C(C)=C)C(=O)O</chem> |

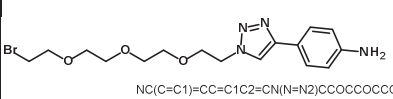
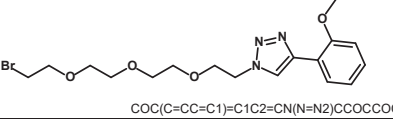
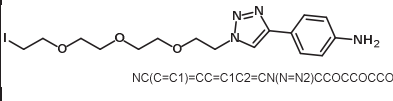
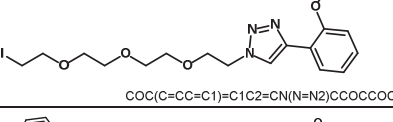
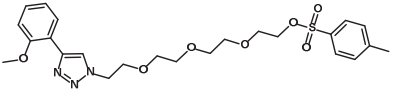
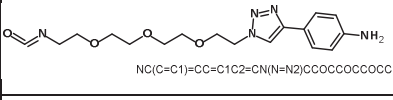
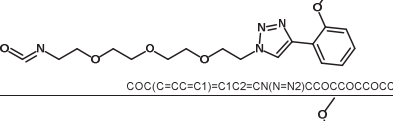
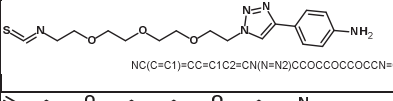
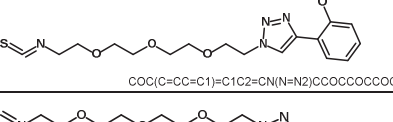
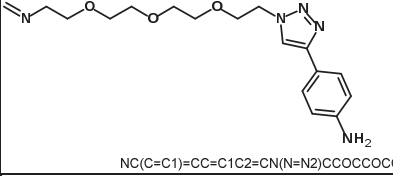
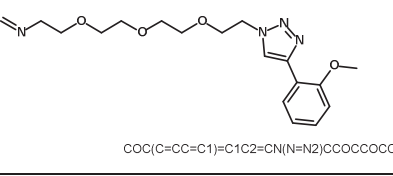
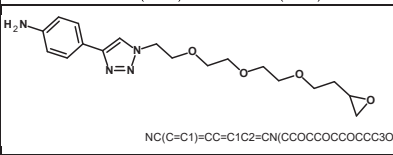
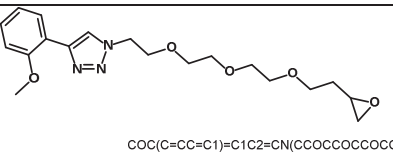
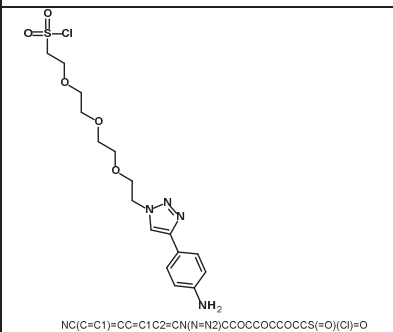
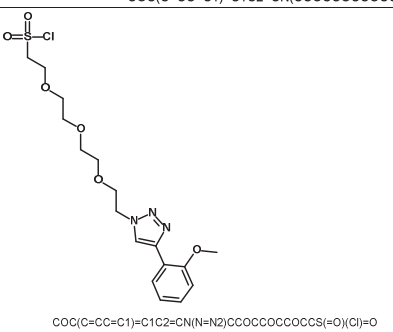
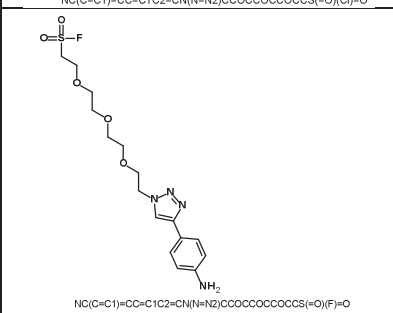
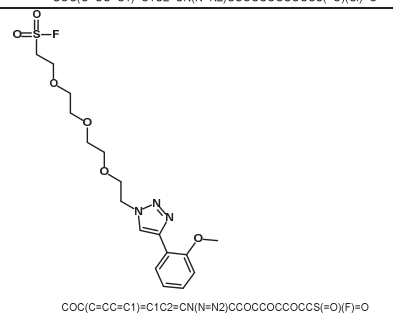
**FIGURE 3D**

|      |  |      |  |
|------|--|------|--|
| 1113 |  | 1119 |  |
| 1114 |  | 1120 |  |
| 1115 |  | 1121 |  |
| 1116 |  | 1122 |  |
| 1117 |  | 1123 |  |
| 1118 |  | 1124 |  |

FIGURE 3E

|      |                                                                      |      |                                                                       |
|------|----------------------------------------------------------------------|------|-----------------------------------------------------------------------|
| 1125 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](O)(O)C/O</chem>   | 1136 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](O)(O)C/O</chem>   |
| 1126 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> | 1137 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> |
| 1127 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> | 1138 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> |
| 1128 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> | 1139 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> |
| 1129 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> | 1140 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> |
| 1130 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> | 1141 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> |
| 1131 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> | 1142 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> |
| 1132 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> | 1143 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> |
| 1133 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> | 1144 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> |
| 1134 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> | 1145 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> |
| 1135 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> | 1146 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC[Si](OC)(OC)C/O</chem> |

FIGURE 3F

|      |                                                                                                                                                       |      |                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1147 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCBr                             | 1156 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCBr                    |
| 1148 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOI                             | 1157 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOI                    |
| 1149 | <br>H <sub>2</sub> Nc1ccc(cc1)-c2nn[nH]2COCCOCCOCCOCC(=O)Nc3ccc(cc3) | 1158 | <br>COc1ccc(cc1)-c2nn[nH]2COCCOCCOCCOCC(=O)Nc3ccc(cc3)       |
| 1150 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC#N                           | 1159 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC#N                  |
| 1151 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCN=S                          | 1160 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOCN=S                 |
| 1152 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC#N                           | 1161 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC#N                  |
| 1153 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC1CO1                        | 1162 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC1CO1               |
| 1154 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC(=O)Nc3ccc(cc3)Cl          | 1163 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC(=O)Nc3ccc(cc3)Cl |
| 1155 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC(=O)Nc3ccc(cc3)F           | 1164 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOC(=O)Nc3ccc(cc3)F  |

**FIGURE 3G**

|      |                                                               |      |                                                                |
|------|---------------------------------------------------------------|------|----------------------------------------------------------------|
| 1165 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCCOCC=O</chem> | 1170 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCCOCC=O</chem> |
| 1166 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCCOCC=O</chem> | 1171 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCCOCC=O</chem> |
| 1167 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCCOCC=O</chem> | 1172 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCCOCC=O</chem> |
| 1168 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCCOCC=O</chem> | 1173 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCCOCC=O</chem> |
| 1169 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCCOCC=O</chem> | 1174 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCCOCC=O</chem> |

**FIGURE 3H**

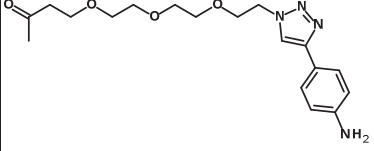
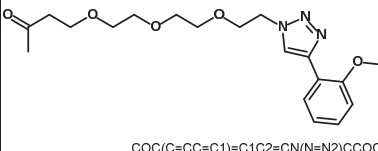
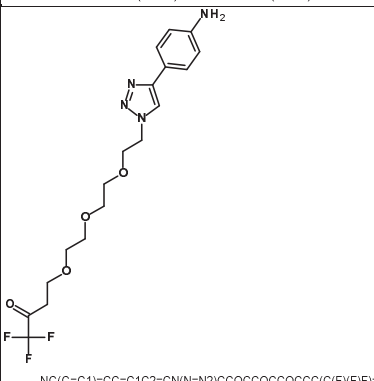
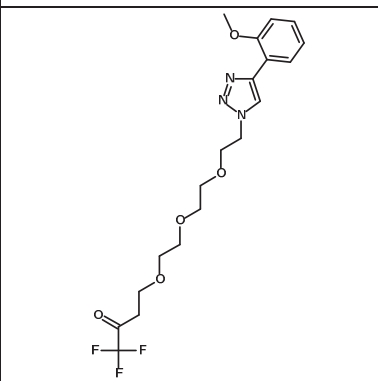
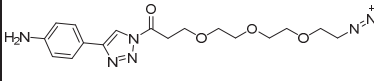
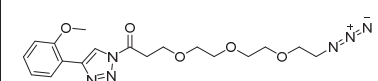
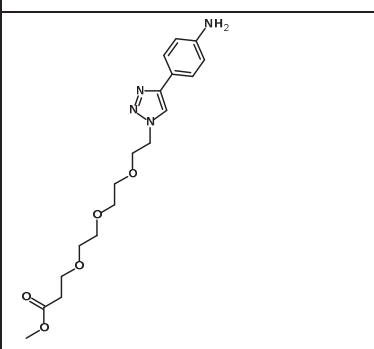
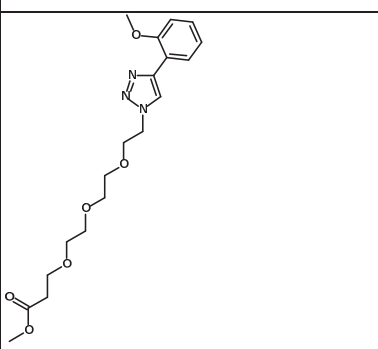
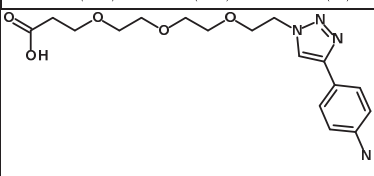
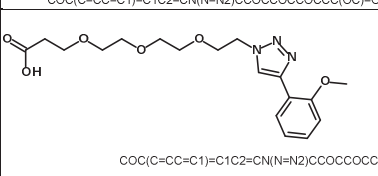
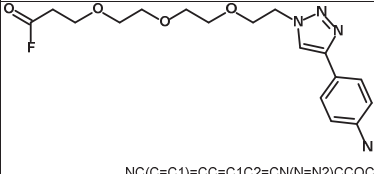
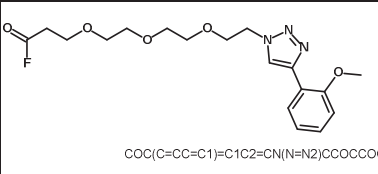
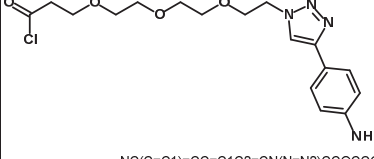
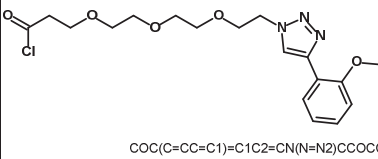
|      |                                                                                                                                            |      |                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1175 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCC(=O)C(F)(F)F      | 1182 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCC(=O)C(F)(F)F      |
| 1176 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F   | 1183 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F   |
| 1177 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F   | 1184 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F   |
| 1178 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F  | 1185 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F  |
| 1179 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F | 1186 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F |
| 1180 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F | 1187 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F |
| 1181 | <br>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F | 1188 | <br>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCOCC(=O)C(F)(F)F |

FIGURE 3I

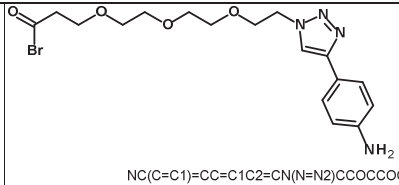
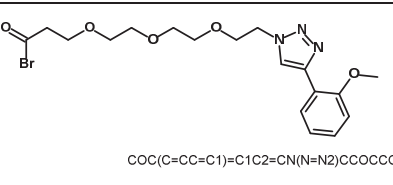
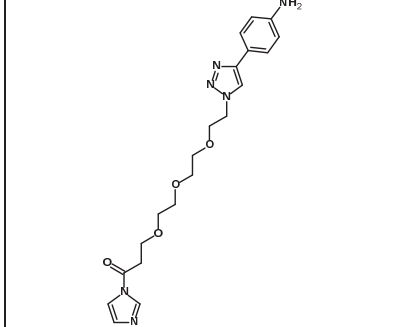
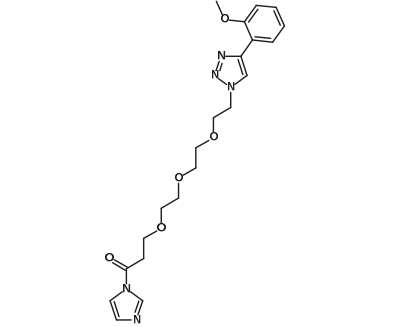
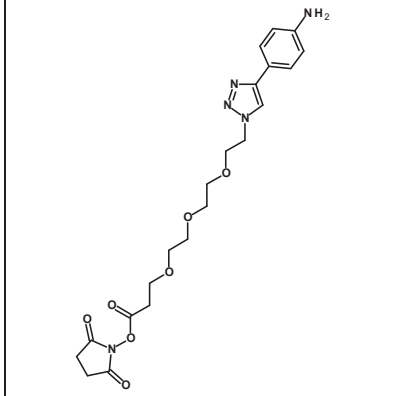
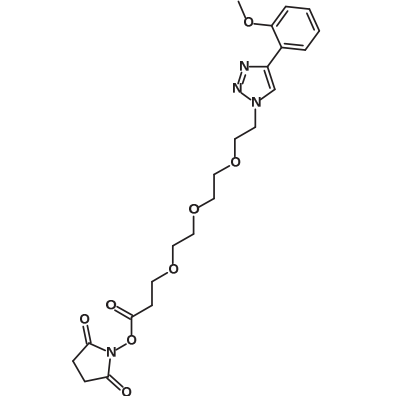
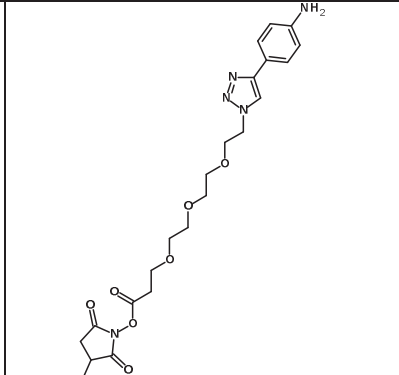
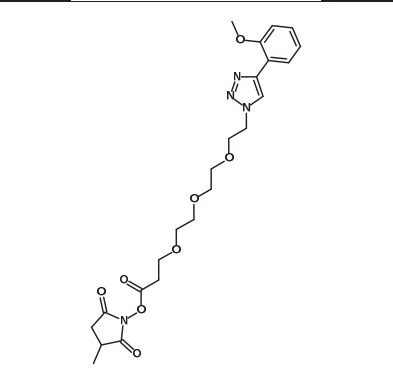
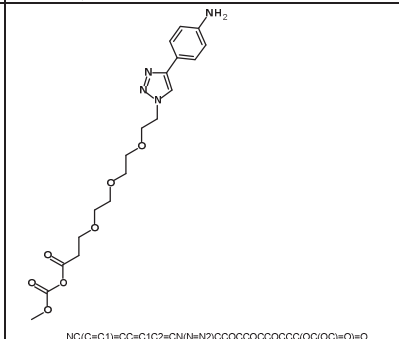
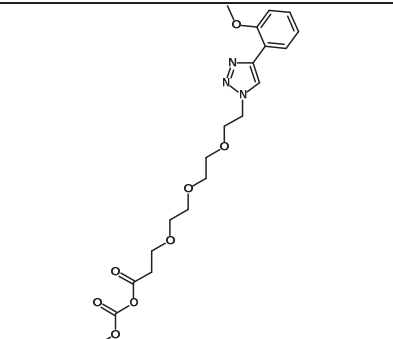
|      |                                                                                                                                                             |      |                                                                                                                                              |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1189 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOC(=O)CCBr</chem>                  | 1194 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOC(=O)CCBr</chem> |
| 1190 |                                                                            | 1195 |                                                            |
| 1191 |                                                                           | 1196 |                                                           |
| 1192 |                                                                          | 1197 |                                                          |
| 1193 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOC(=O)CCOC(=O)C1OC(OC1)=O</chem> | 1198 |                                                          |

FIGURE 3J

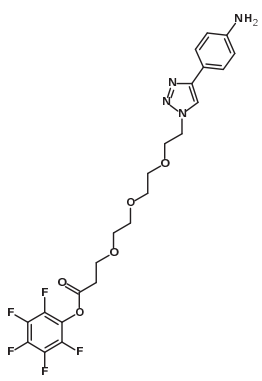
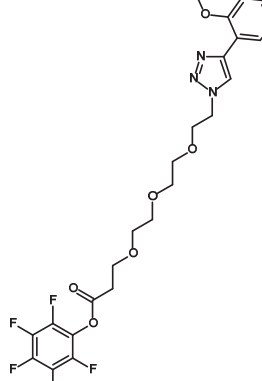
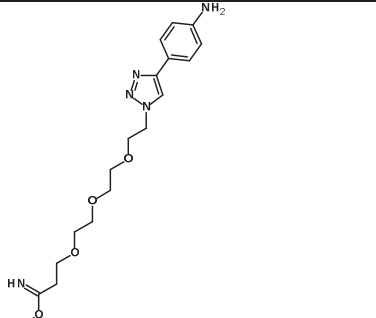
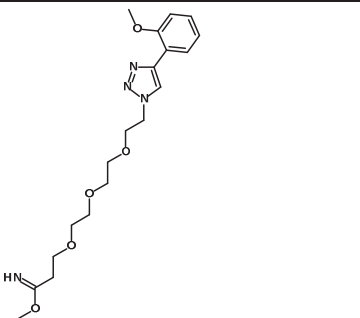
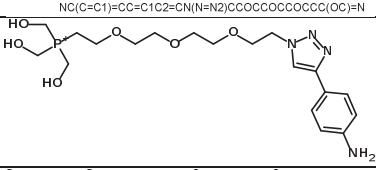
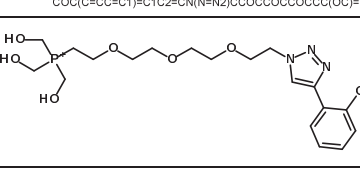
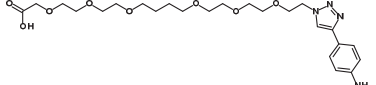
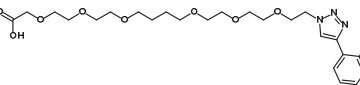
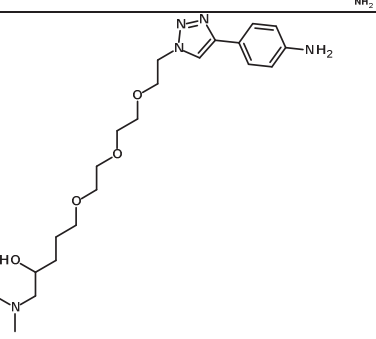
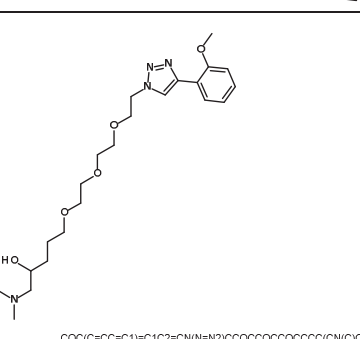
|      |                                                                                                                                              |      |                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1199 |                                                             | 1204 |                                                                  |
| 1200 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC(OC)=N</chem> | 1205 | <br><chem>COC(C=C=C1)=C1C2=CN(N=N2)COCOCOCOCOC(OC)=N</chem>      |
| 1201 |                                                            | 1206 |                                                                 |
| 1202 |                                                           | 1207 |                                                                |
| 1203 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC</chem>     | 1208 | <br><chem>COC(C=C=C1)=C1C2=CN(N=N2)COCOCOCOCOC(OC(C)C)O</chem> |

FIGURE 3K

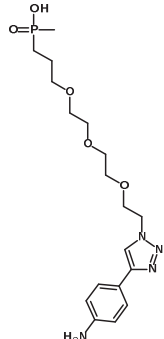
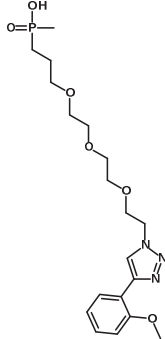
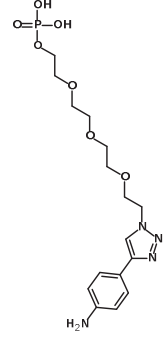
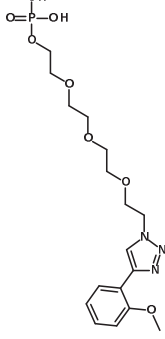
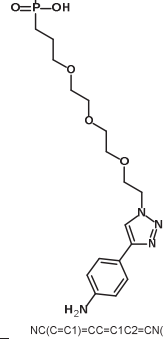
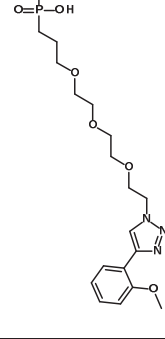
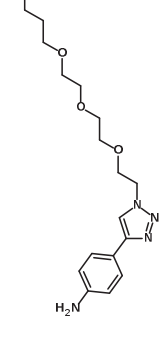
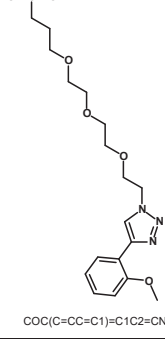
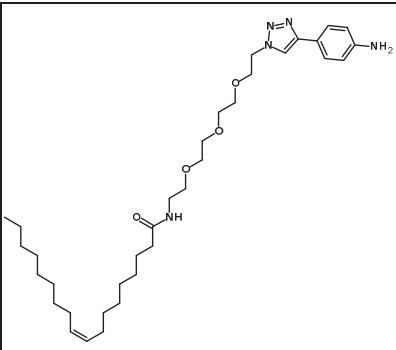
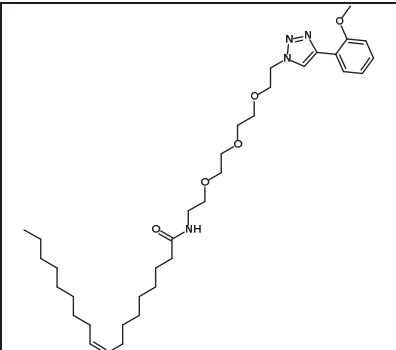
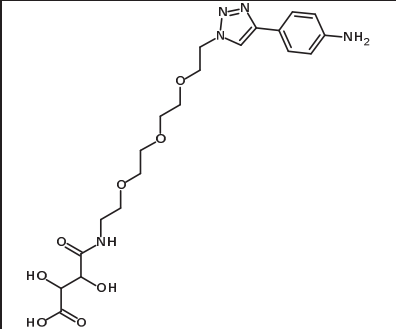
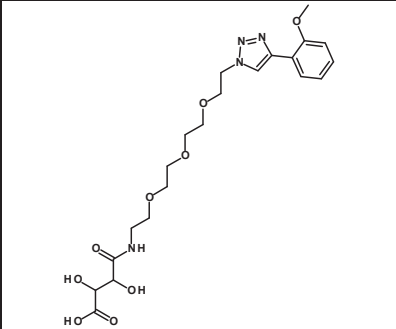
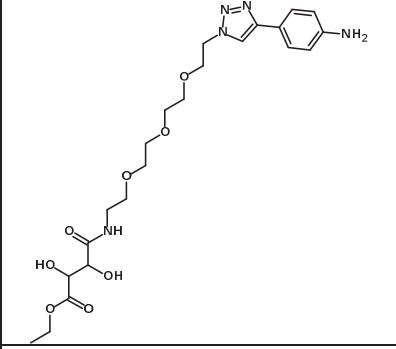
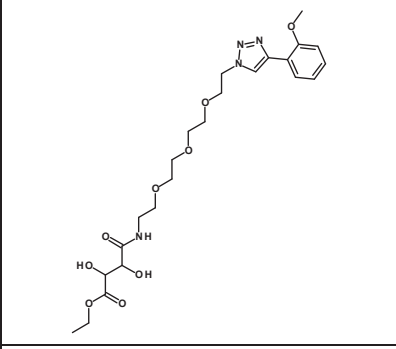
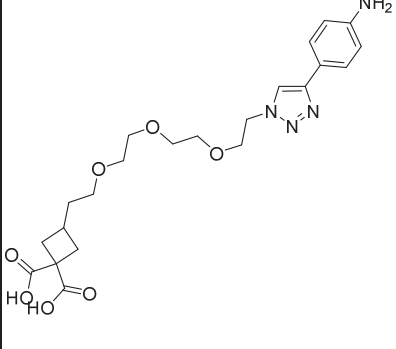
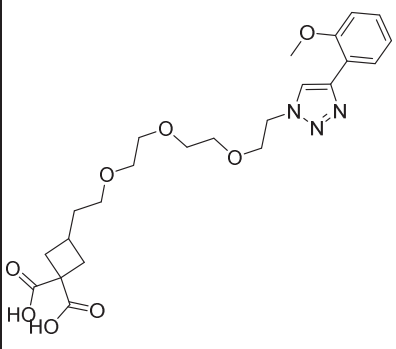
|      |                                                                                                                                                       |      |                                                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1209 |  <chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOP(=O)(O)C=O</chem>       | 1213 |  <chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOP(=O)(O)C=O</chem>        |
| 1210 |  <chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOP(=O)(O)C=O</chem>       | 1214 |  <chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOP(=O)(O)C=O</chem>        |
| 1211 |  <chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOP(=O)(O)C=O</chem>      | 1215 |  <chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOP(=O)(O)C=O</chem>       |
| 1212 |  <chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCOS(=O)(=O)C(=O)O</chem> | 1216 |  <chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCCS(=O)(=O)C(=O)O</chem> |

FIGURE 3L

|      |                                                                                     |      |                                                                                      |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 1217 |    | 1221 |    |
| 1218 |    | 1222 |    |
| 1219 |   | 1223 |   |
| 1220 |  | 1224 |  |

**FIGURE 3M**

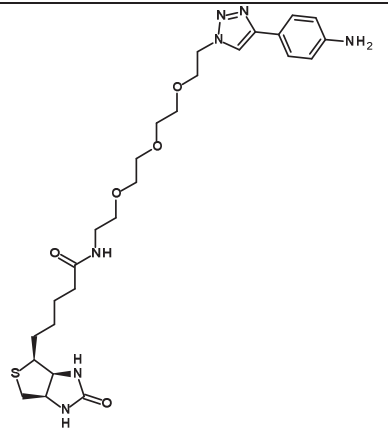
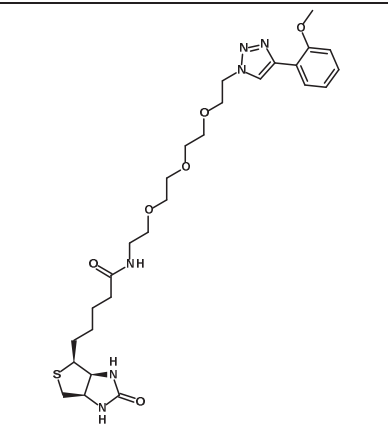
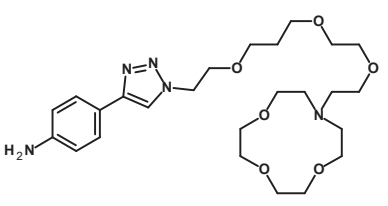
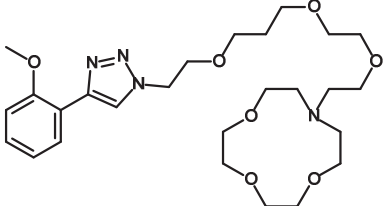
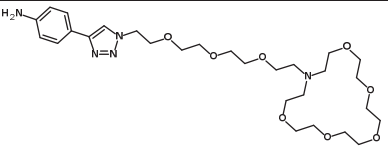
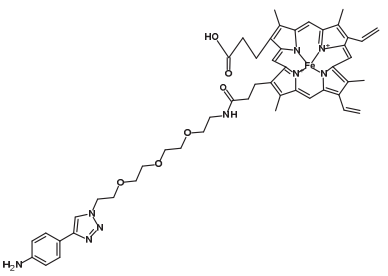
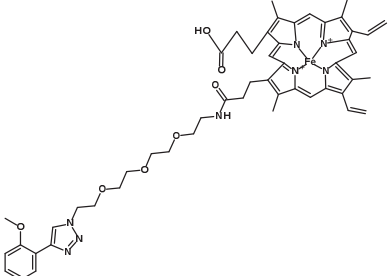
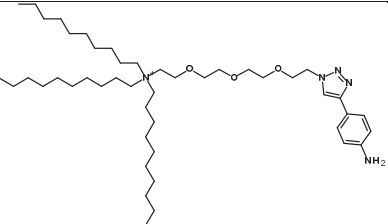
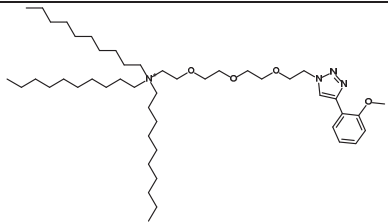
|      |                                                                                     |      |                                                                                      |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 1225 |    | 1230 |    |
| 1226 |    | 1231 |    |
| 1227 |    | 1232 |    |
| 1228 |  | 1233 |  |
| 1229 |  | 1234 |  |

FIGURE 3N

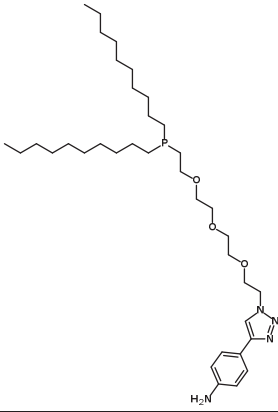
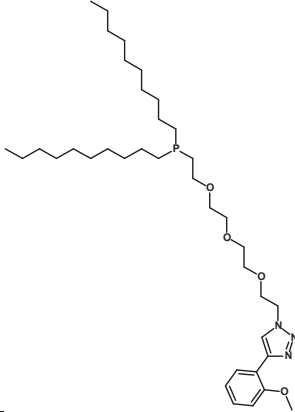
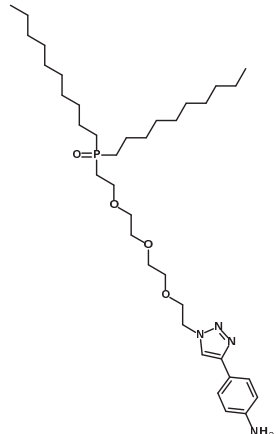
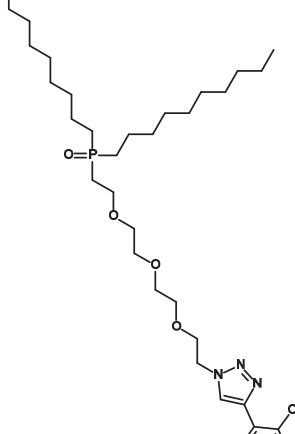
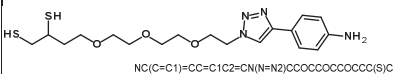
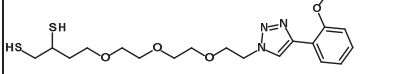
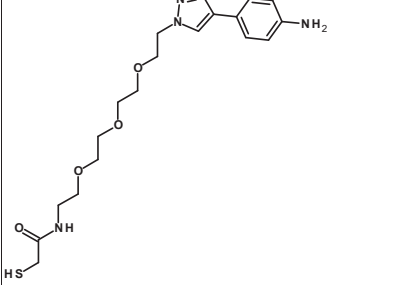
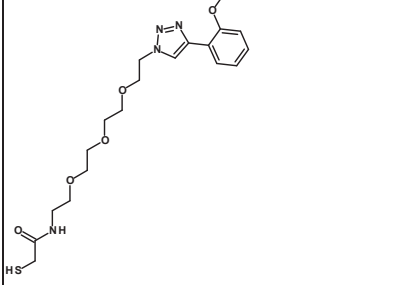
|      |                                                                                                                                                  |      |                                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1235 |                                                                 | 1239 |                                                                  |
| 1236 |                                                                | 1240 |                                                                 |
| 1237 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCC(S)CS</chem>    | 1241 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCC(S)CS</chem>    |
| 1238 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCCNC(=O)CS</chem> | 1242 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCCOCCNC(=O)CS</chem> |

FIGURE 30

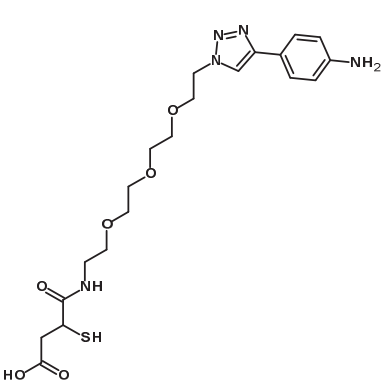
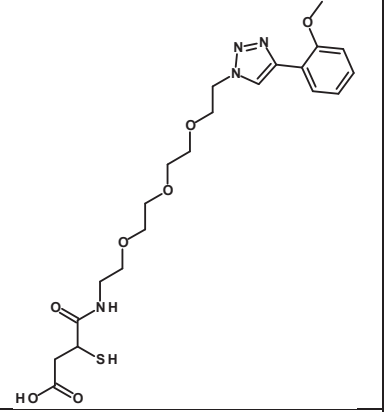
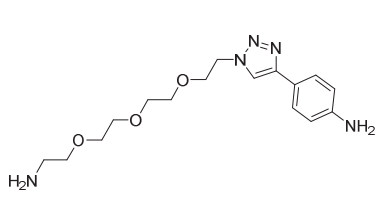
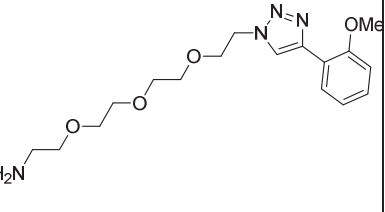
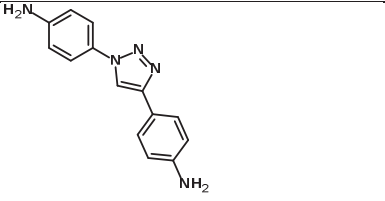
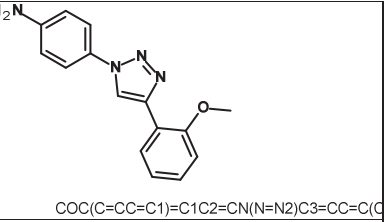
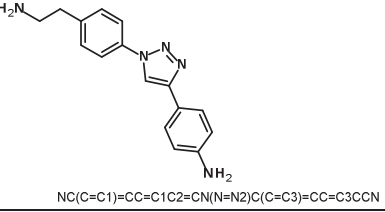
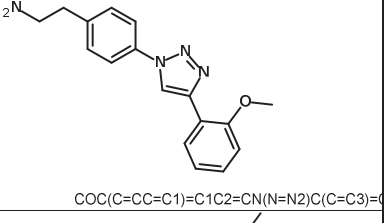
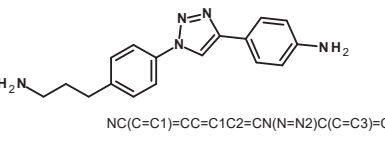
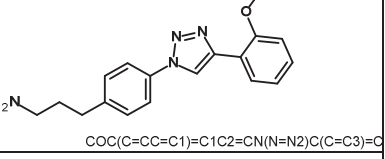
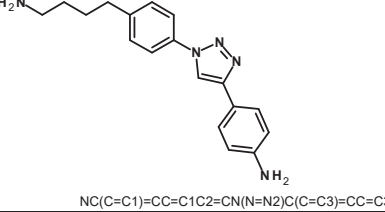
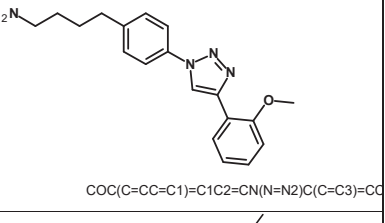
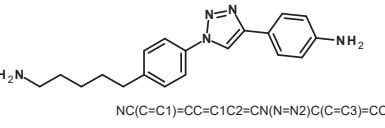
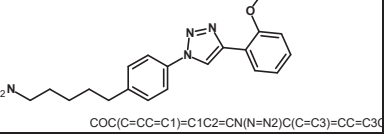
|      |                                                                                                                                               |      |                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1243 |                                                              | 1250 |                                                               |
| 1244 |                                                              | 1251 |                                                               |
| 1245 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem>    | 1252 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem>    |
| 1246 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3CCN</chem> | 1253 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3CCN</chem> |
| 1247 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3CCN</chem> | 1254 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3CCN</chem> |
| 1248 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3CCN</chem> | 1255 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3CCN</chem> |
| 1249 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3CCN</chem> | 1256 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3CCN</chem> |

FIGURE 3P

|      |                                                                                   |      |                                                                                    |
|------|-----------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------|
| 1257 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3NCCOCCOCCc4ccc(N)cc4</chem>       | 1265 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3NCCOCCOCCc4ccc(N)cc4</chem>       |
| 1258 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3NCCOCCOCCOCCc4ccc(N)cc4</chem>    | 1266 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3NCCOCCOCCOCCc4ccc(N)cc4</chem>    |
| 1259 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3NCCOCCOCCOCCOCCc4ccc(N)cc4</chem> | 1267 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3NCCOCCOCCOCCOCCc4ccc(N)cc4</chem> |
| 1260 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3CNCCc4ccc(N)cc4</chem>            | 1268 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3CNCCc4ccc(N)cc4</chem>            |
| 1261 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3CNCCc4ccc(N)cc4</chem>            | 1269 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3CNCCc4ccc(N)cc4</chem>            |
| 1262 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3CNCCc4ccc(N)cc4</chem>            | 1270 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3CNCCc4ccc(N)cc4</chem>            |
| 1263 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3(COC3)C(C=C4)=CC=C4CNCCc4ccc(N)cc4</chem>    | 1271 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3(COC3)C(C=C4)=CC=C4CNCCc4ccc(N)cc4</chem>    |
| 1264 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(C=C3)=CC=C3CNCCc4ccc(N)cc4</chem>            | 1272 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(C=C3)=CC=C3CNCCc4ccc(N)cc4</chem>            |

FIGURE 3Q

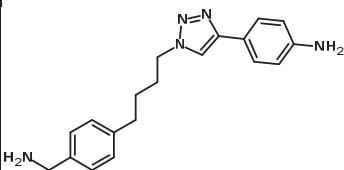
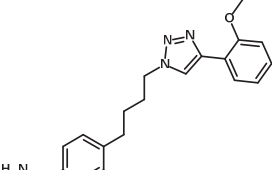
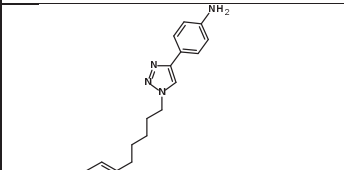
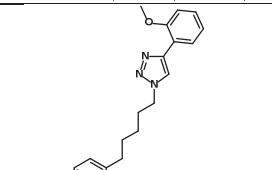
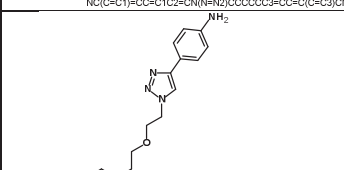
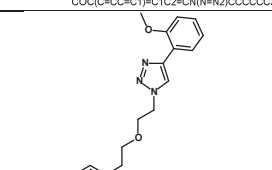
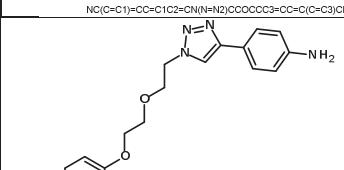
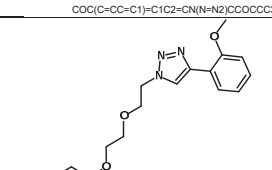
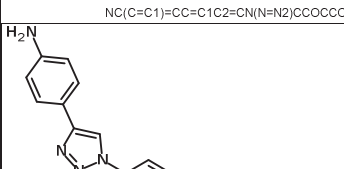
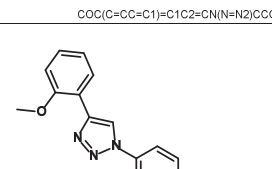
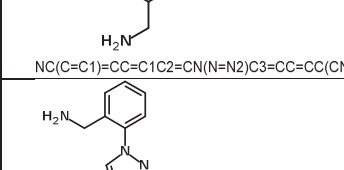
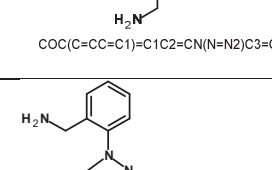
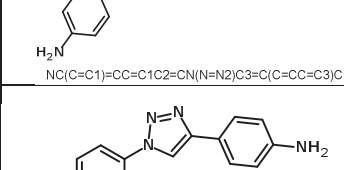
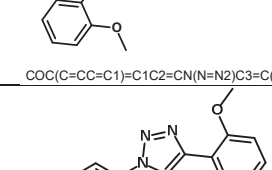
|      |                                                                                                                                               |      |                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1273 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCCC3=CC=C(C=C3)N</chem>  | 1280 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCCC3=CC=C(C=C3)N</chem>  |
| 1274 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCCC3=CC=C(C=C3)N</chem>  | 1281 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCCC3=CC=C(C=C3)N</chem>  |
| 1275 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCCC3=CC=C(C=C3)N</chem>  | 1282 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCCC3=CC=C(C=C3)N</chem>  |
| 1276 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCCC3=CC=C(C=C3)N</chem> | 1283 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCCC3=CC=C(C=C3)N</chem> |
| 1277 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=CC(CN)=C3</chem>  | 1284 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=CC(CN)=C3</chem>  |
| 1278 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=CC(CN)=C3</chem>  | 1285 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=CC(CN)=C3</chem>  |
| 1279 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=CC(CN)=C3</chem>  | 1286 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=CC(CN)=C3</chem>  |

FIGURE 3R

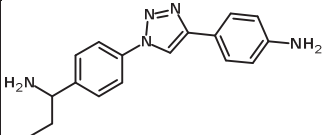
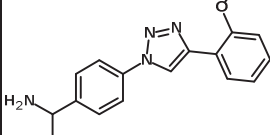
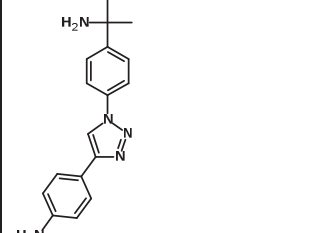
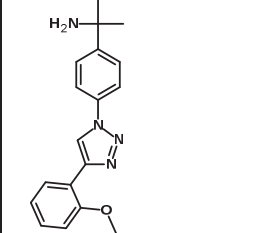
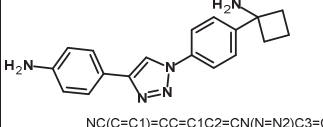
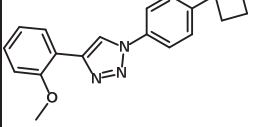
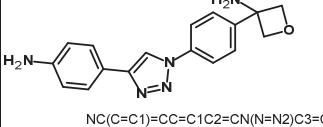
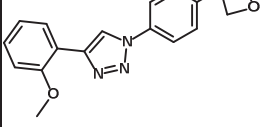
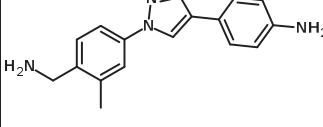
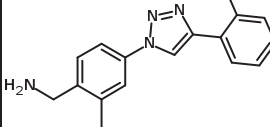
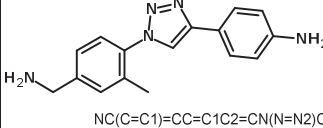
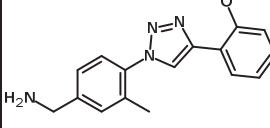
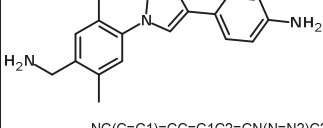
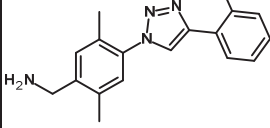
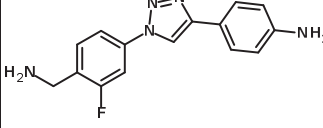
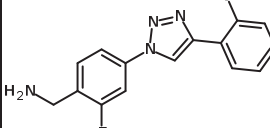
|      |                                                                                                                                             |      |                                                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1287 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem>   | 1295 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem>   |
| 1288 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem>   | 1296 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem>   |
| 1289 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem>   | 1297 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem>   |
| 1290 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem>  | 1298 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem>  |
| 1291 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem> | 1299 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem> |
| 1292 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem> | 1300 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem> |
| 1293 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem> | 1301 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem> |
| 1294 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem> | 1302 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=C(C=C3)N</chem> |

FIGURE 3S

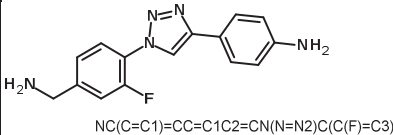
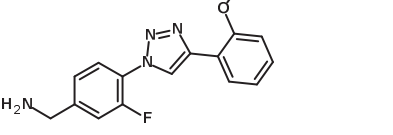
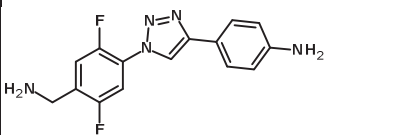
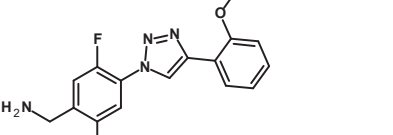
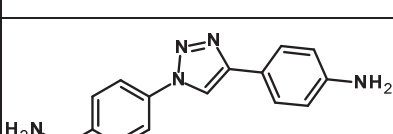
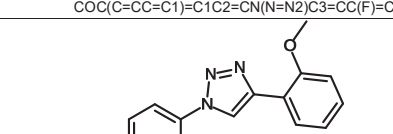
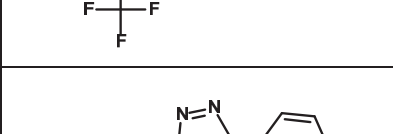
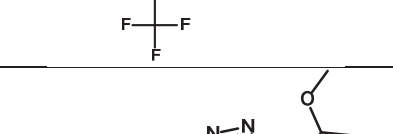
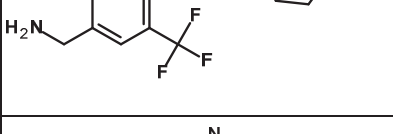
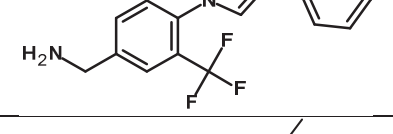
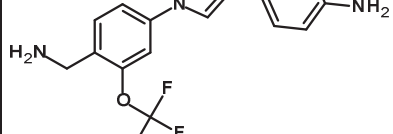
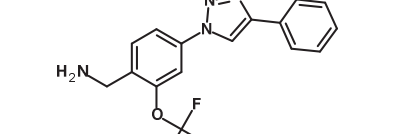
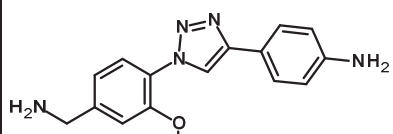
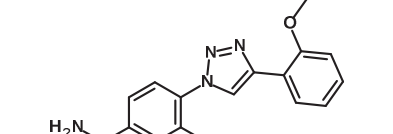
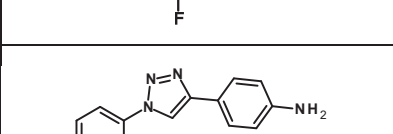
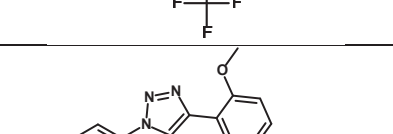
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| 1304 |    | 1312 |    |
| 1305 |    | 1313 |    |
| 1306 |    | 1314 |    |
| 1307 |   | 1315 |   |
| 1308 |  | 1316 |  |
| 1309 |  | 1317 |  |
| 1310 |  | 1318 |  |

FIGURE 3T

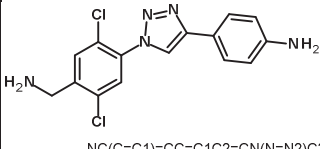
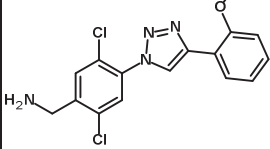
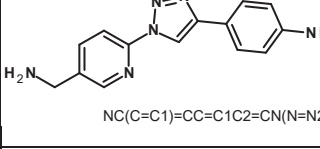
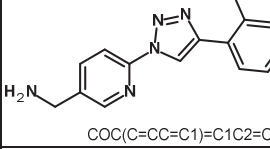
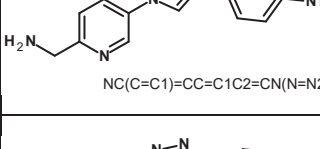
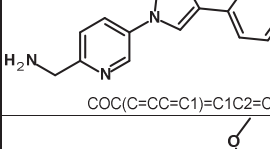
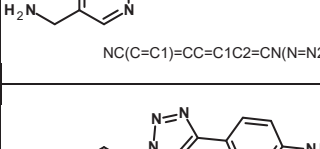
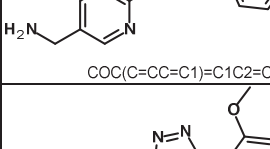
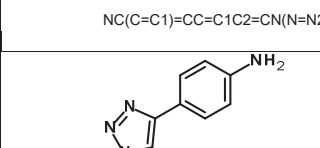
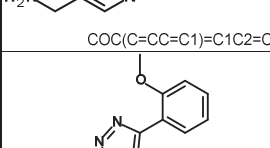
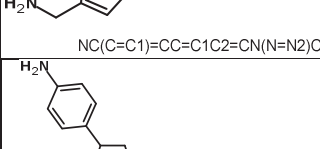
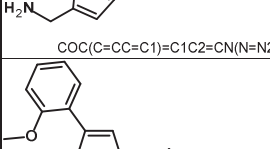
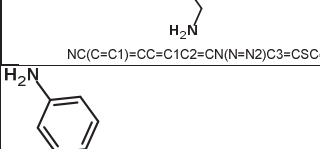
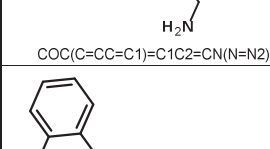
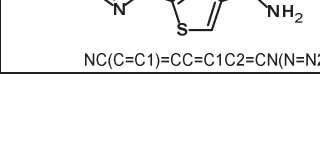
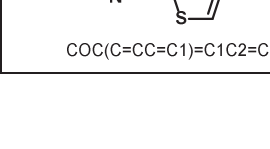
|      |                                                                                                                                            |      |                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1319 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC(Cl)=C</chem>     | 1327 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC(Cl)=C</chem>     |
| 1320 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=NC=C</chem>         | 1328 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=NC=C</chem>         |
| 1321 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CN=C</chem>         | 1329 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CN=C</chem>         |
| 1322 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=NC=C</chem>        | 1330 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=NC=C</chem>        |
| 1323 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(N=C3)=</chem>      | 1331 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(N=C3)=</chem>      |
| 1324 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(S3)=CC=C</chem>    | 1332 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(S3)=CC=C3CN</chem> |
| 1325 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CSC(CN)=C3</chem> | 1333 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CSC(CN)=C3</chem> |
| 1326 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C</chem>       | 1334 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC=C</chem>       |

FIGURE 3U

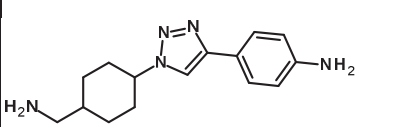
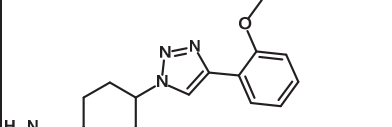
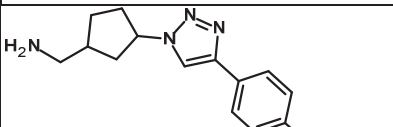
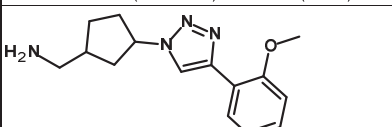
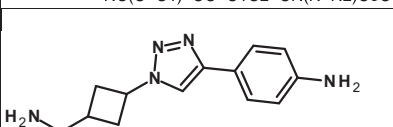
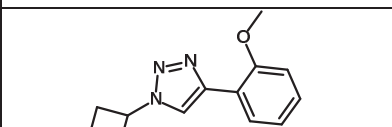
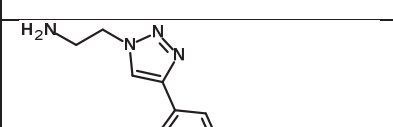
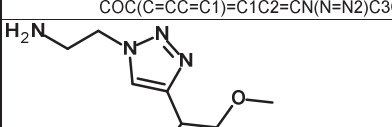
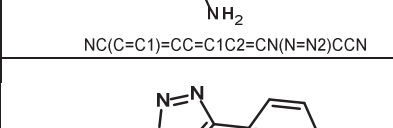
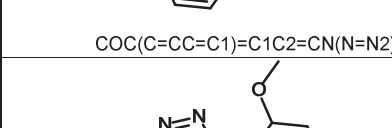
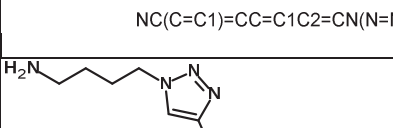
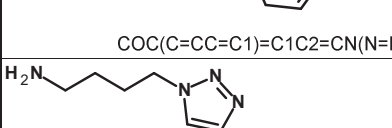
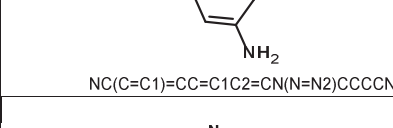
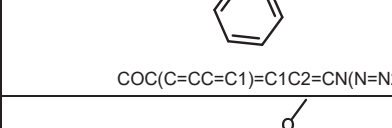
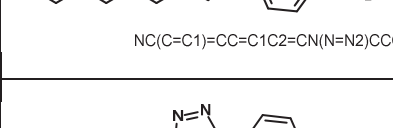
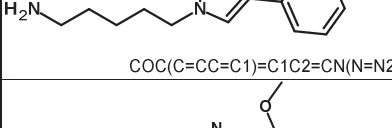
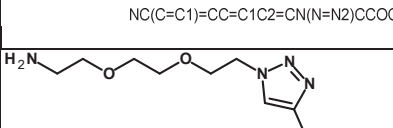
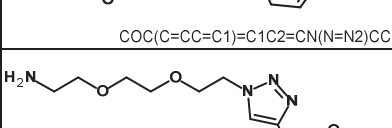
|      |                                                                                                                                     |      |                                                                                                                                       |
|------|-------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------|
| 1335 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3CCCCC3</chem> | 1344 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3CCCCC3</chem> |
| 1336 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3CCCCC3</chem> | 1345 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3CCCCC3</chem> |
| 1337 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3CCCCC3</chem> | 1346 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3CCCCC3</chem> |
| 1338 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCN</chem>      | 1347 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCN</chem>      |
| 1339 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCCN</chem>    | 1348 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCCN</chem>    |
| 1340 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCCCN</chem>  | 1349 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCCCN</chem>  |
| 1341 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCCCCN</chem> | 1350 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCCCCN</chem> |
| 1342 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCN</chem> | 1351 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCN</chem> |
| 1343 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CCOCCN</chem> | 1352 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CCOCCN</chem> |

FIGURE 3V

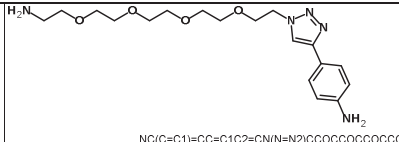
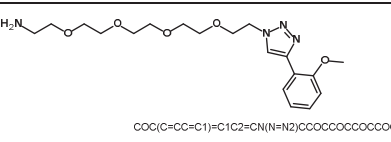
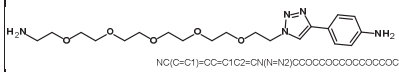
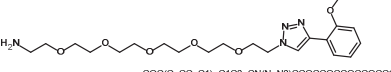
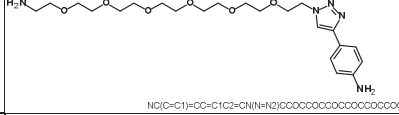
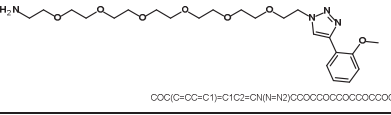
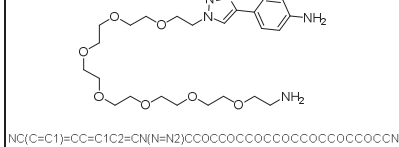
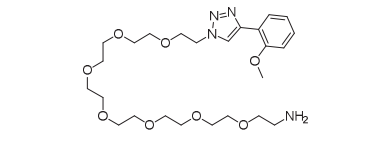
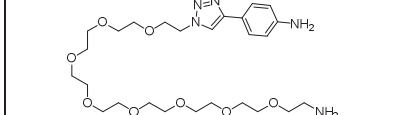
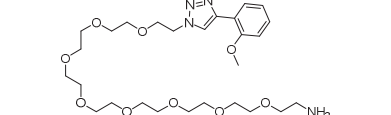
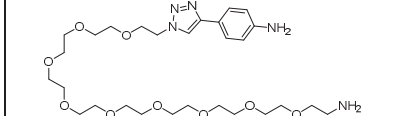
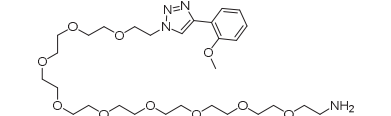
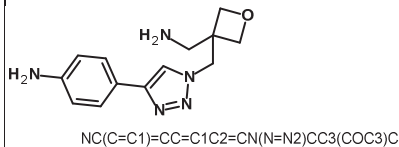
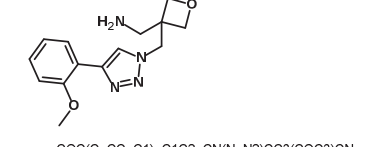
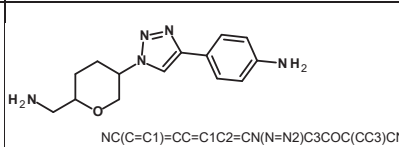
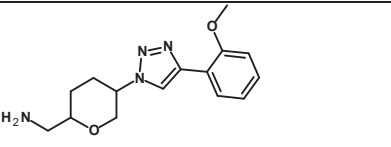
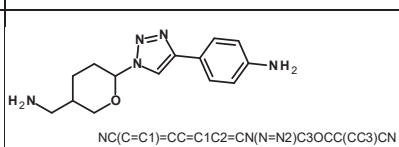
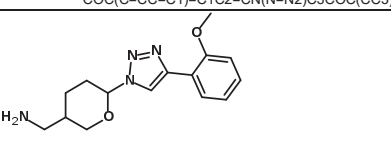
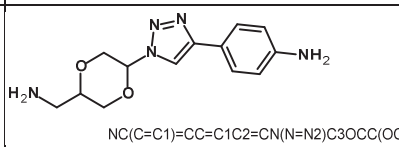
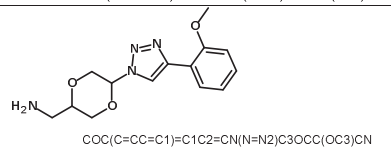
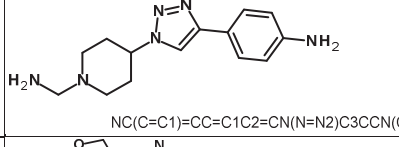
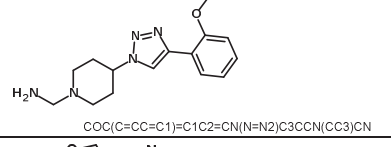
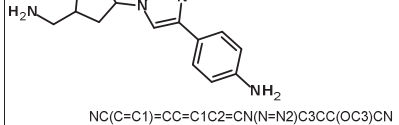
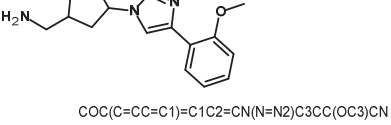
|      |                                                                                                                                              |      |                                                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1353 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOC</chem>     | 1365 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOCOC</chem>     |
| 1354 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOCOC</chem>   | 1366 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOCOCOC</chem>   |
| 1355 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOCOCOC</chem> | 1367 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)COCOCOCOCOCOCOCOC</chem> |
| 1356 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOCOCOC</chem> | 1368 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOCOCOC</chem>  |
| 1357 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOCOCOC</chem> | 1369 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOCOCOC</chem>  |
| 1358 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOCOCOC</chem> | 1370 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOCOCOCOC</chem>  |
| 1359 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)CC3(COC3)C</chem>       | 1371 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)CC3(COC3)CN</chem>      |
| 1360 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3COC(C3)CN</chem>     | 1372 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3COC(C3)CN</chem>     |
| 1361 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3OCC(C3)CN</chem>     | 1373 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3OCC(C3)CN</chem>     |
| 1362 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3OCC(C3)CN</chem>     | 1374 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3OCC(C3)CN</chem>     |
| 1363 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3CCN(C3)CN</chem>     | 1375 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3CCN(C3)CN</chem>     |
| 1364 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3CC(OC3)CN</chem>     | 1376 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3CC(OC3)CN</chem>     |

FIGURE 3W

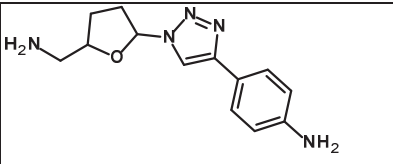
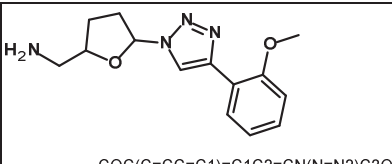
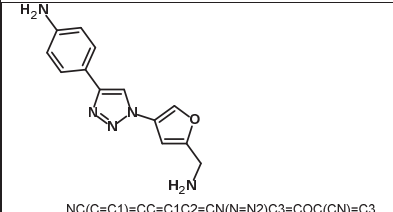
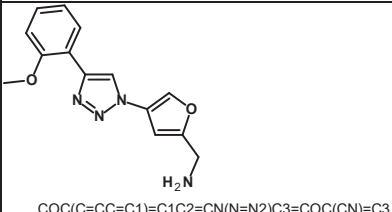
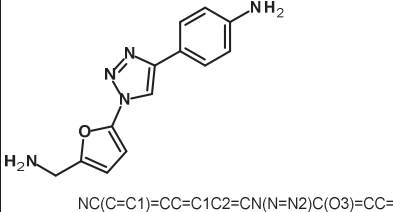
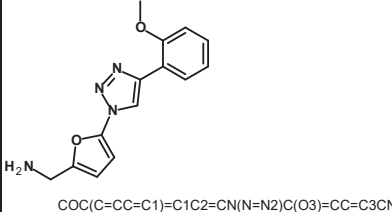
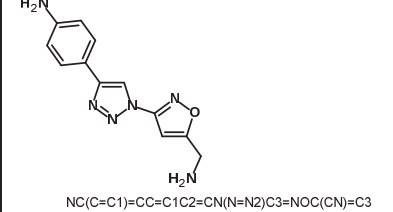
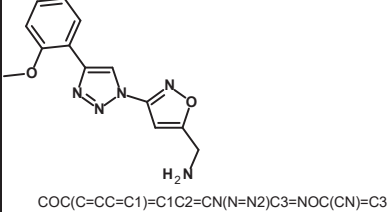
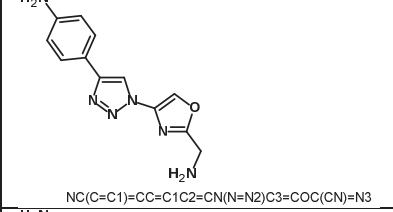
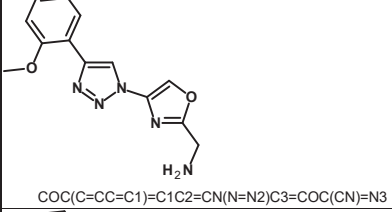
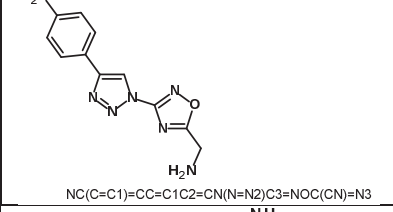
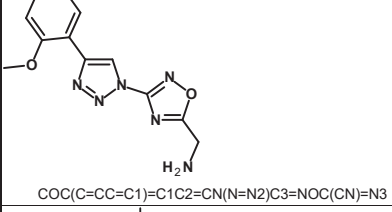
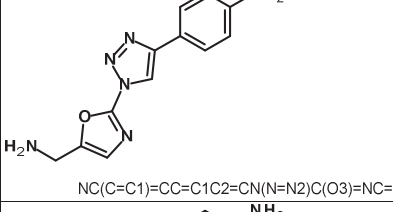
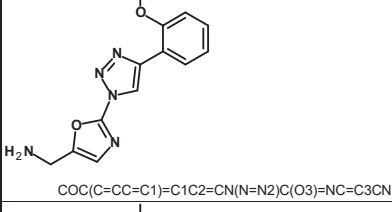
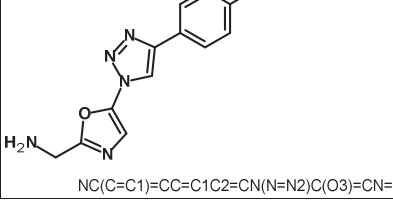
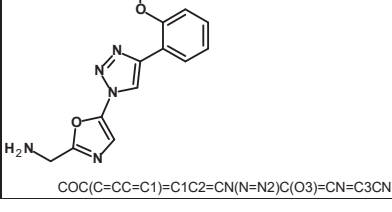
|      |                                                                                                                                            |      |                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1377 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3OC(CN)C3</chem>      | 1385 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3OC(CN)C3</chem>      |
| 1378 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC(CN)=C3</chem>    | 1386 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC(CN)=C3</chem>    |
| 1379 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(O3)=CC=C3</chem>     | 1387 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(O3)=CC=C3CN</chem>   |
| 1380 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=NOC(CN)=C3</chem>  | 1388 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=NOC(CN)=C3</chem>  |
| 1381 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CC(CN)=N3</chem>  | 1389 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CC(CN)=N3</chem>  |
| 1382 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=NOC(CN)=N3</chem> | 1390 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=NOC(CN)=N3</chem> |
| 1383 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(O3)=NC=C3</chem>   | 1391 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(O3)=NC=C3CN</chem> |
| 1384 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(O3)=CN=C3</chem>   | 1392 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(O3)=CN=C3CN</chem> |

FIGURE 3X

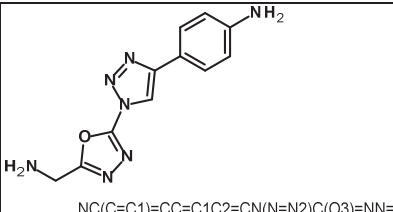
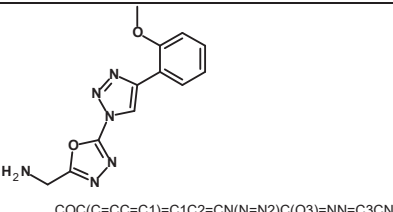
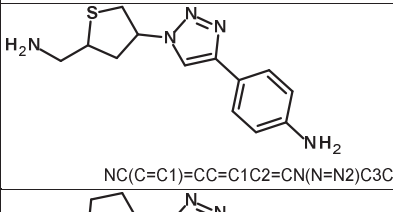
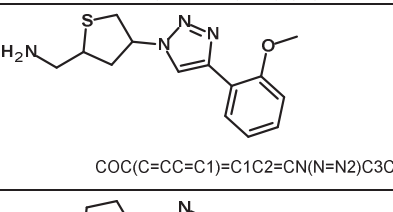
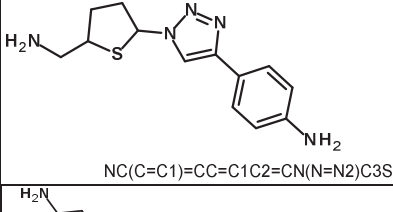
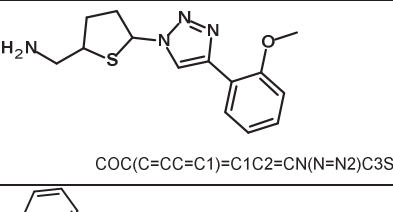
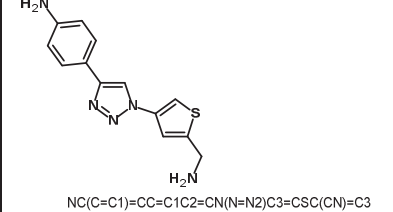
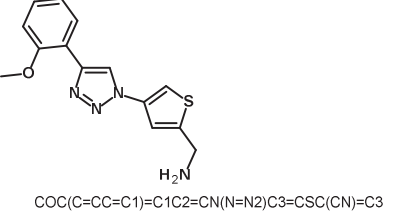
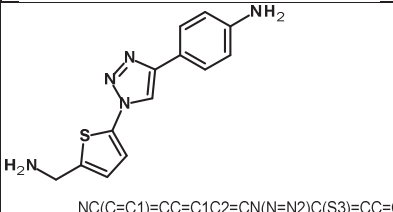
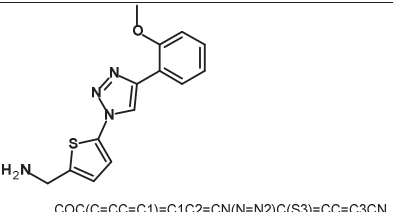
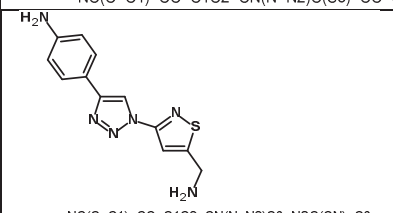
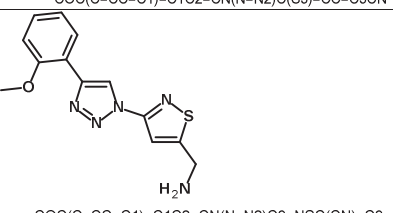
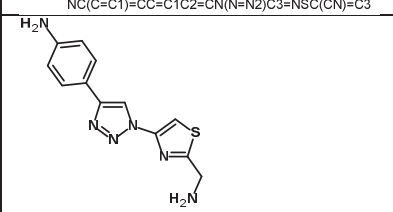
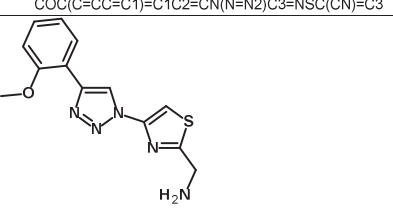
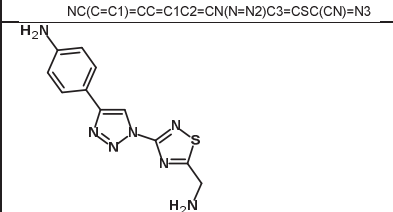
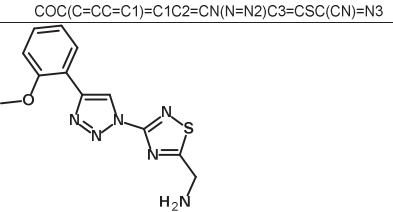
|      |                                                                                                                                                   |      |                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1393 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(O3)=NN=C3C4=CN=CN=C4</chem> | 1401 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(O3)=NN=C3CN</chem>   |
| 1394 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3C=CN=CS3</chem>             | 1402 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3C=CN=CS3</chem>      |
| 1395 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3S=CN=C3</chem>              | 1403 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3S=CN=C3</chem>       |
| 1396 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CSC(CN)=C3</chem>         | 1404 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CSC(CN)=C3</chem>  |
| 1397 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(S3)=CC=C3</chem>          | 1405 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(S3)=CC=C3CN</chem> |
| 1398 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=NSC(CN)=C3</chem>        | 1406 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=NSC(CN)=C3</chem> |
| 1399 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CSC(CN)=N3</chem>        | 1407 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CSC(CN)=N3</chem> |
| 1400 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=NSC(CN)=N3</chem>        | 1408 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=NSC(CN)=N3</chem> |

FIGURE 3Y

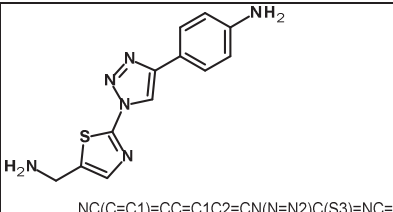
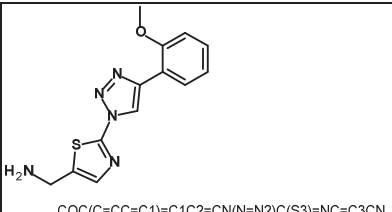
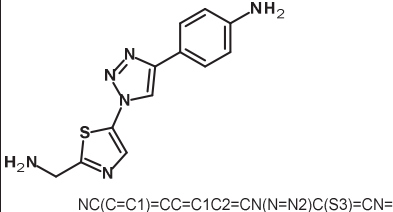
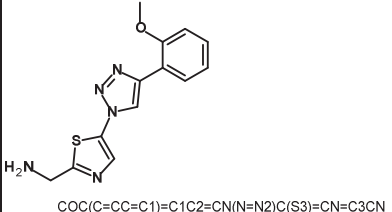
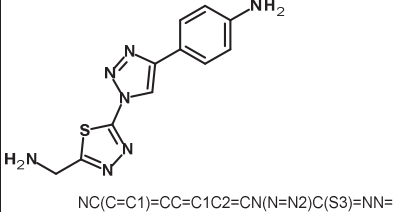
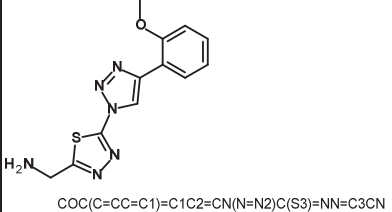
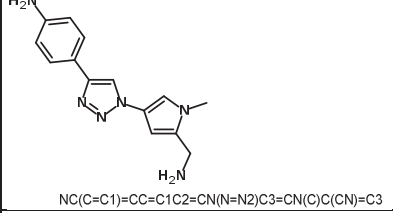
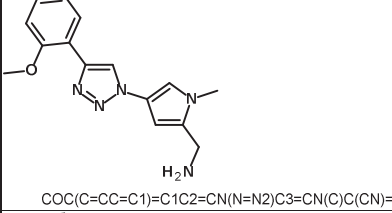
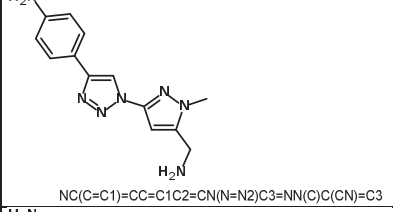
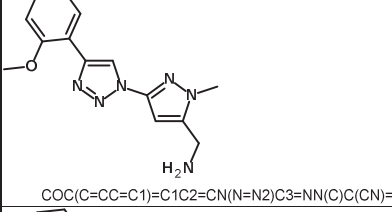
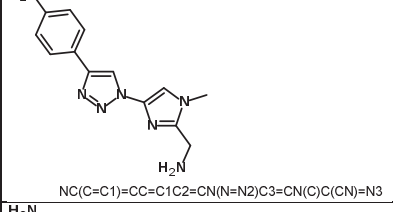
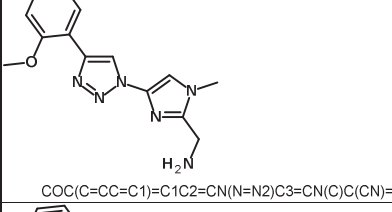
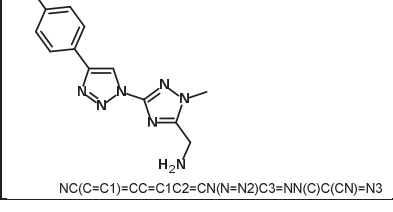
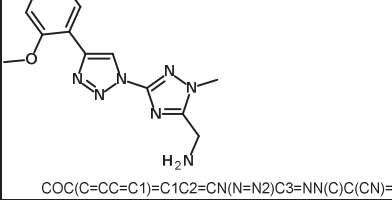
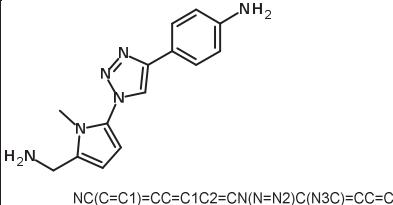
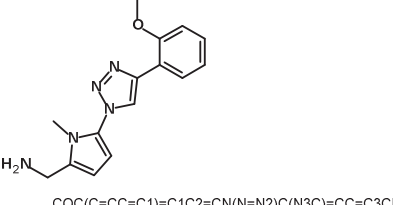
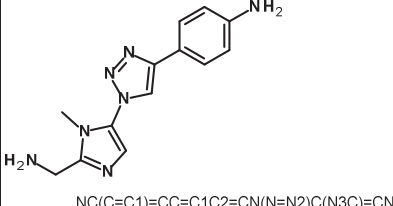
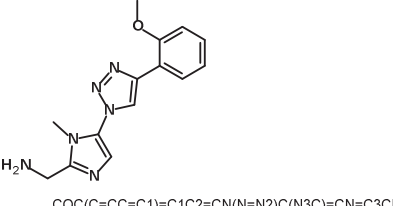
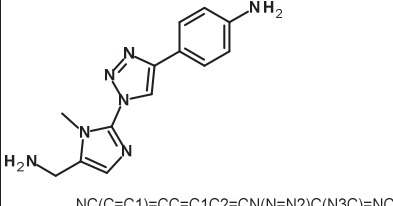
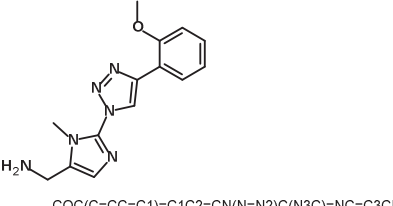
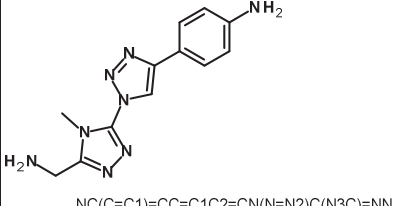
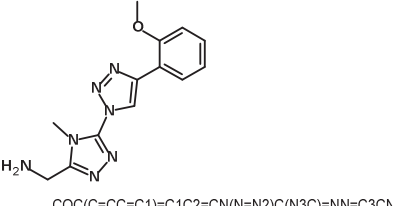
|      |                                                                                                                                               |      |                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1409 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(S3)=NC=C3</chem>        | 1416 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(S3)=NC=C3CN</chem>      |
| 1410 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(S3)=NC=C3</chem>        | 1417 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(S3)=NC=C3CN</chem>      |
| 1411 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(S3)=NN=C3</chem>        | 1418 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(S3)=NN=C3CN</chem>      |
| 1412 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CN(C)C(CN)=C3</chem>  | 1419 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CN(C)C(CN)=C3</chem>  |
| 1413 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=NN(C)C(CN)=C3</chem> | 1420 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=NN(C)C(CN)=C3</chem> |
| 1414 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=CN(C)C(CN)=N3</chem> | 1421 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=CN(C)C(CN)=N3</chem> |
| 1415 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C3=NN(C)C(CN)=N3</chem> | 1422 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C3=NN(C)C(CN)=N3</chem> |

FIGURE 3Z

|      |                                                                                                                                         |      |                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1423 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(N3C)=CC=C3</chem> | 1432 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(N3C)=CC=C3C</chem>   |
| 1424 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(N3C)=CN</chem>    | 1433 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(N3C)=CN=C3C</chem>   |
| 1425 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(N3C)=NC</chem>    | 1434 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(N3C)=NC=C3C</chem>   |
| 1426 | <br><chem>NC(C=C1)=CC=C1C2=CN(N=N2)C(N3C)=NN</chem>   | 1435 | <br><chem>COC(C=CC=C1)=C1C2=CN(N=N2)C(N3C)=NN=C3CN</chem> |

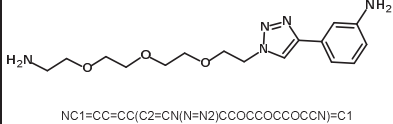
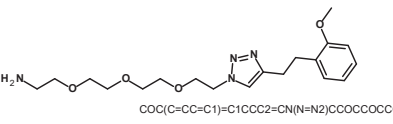
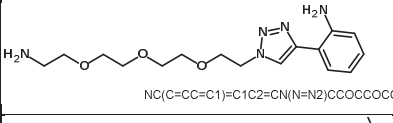
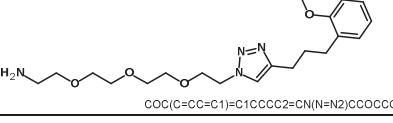
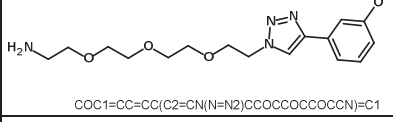
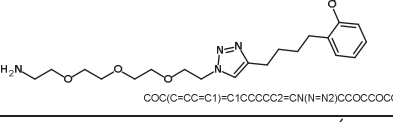
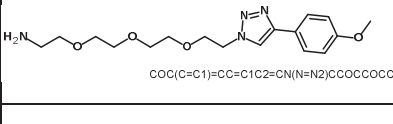
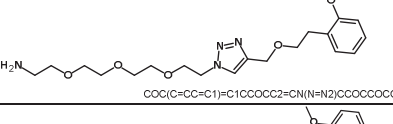
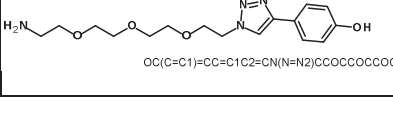
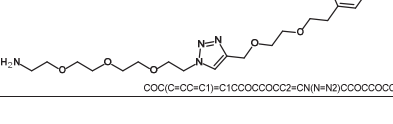
|      |                                                                                                                                            |      |                                                                                                                                                |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1427 | <br><chem>NC1=CC=CC(C2=CN(N=N2)CCOCCOCCOCCN)=C1</chem>  | 1436 | <br><chem>COC(C=CC=C1)=C1COC2=CN(N=N2)CCOCCOCC</chem>      |
| 1428 | <br><chem>NC(C=CC=C1)=C1C2=CN(N=N2)CCOCCOCC</chem>      | 1437 | <br><chem>COC(C=CC=C1)=C1CCOC2=CN(N=N2)CCOCCOCC</chem>     |
| 1429 | <br><chem>COC1=CC=CC(C2=CN(N=N2)CCOCCOCCOCCN)=C1</chem> | 1438 | <br><chem>COC(C=CC=C1)=C1CCOC2=CN(N=N2)CCOCCOCC</chem>     |
| 1430 | <br><chem>COC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCC</chem>  | 1439 | <br><chem>COC(C=CC=C1)=C1CCOCC2=CN(N=N2)CCOCCOCC</chem>    |
| 1431 | <br><chem>OC(C=C1)=CC=C1C2=CN(N=N2)CCOCCOCCOCC</chem>   | 1440 | <br><chem>COC(C=CC=C1)=C1CCOCCOCC2=CN(N=N2)CCOCCOCC</chem> |

FIGURE 3AA

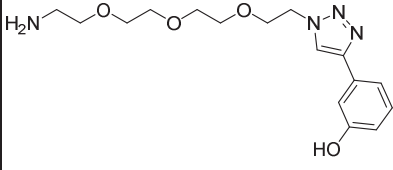
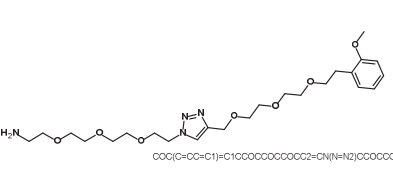
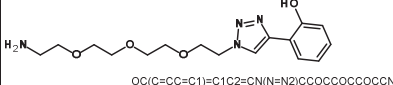
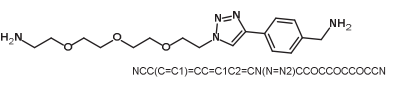
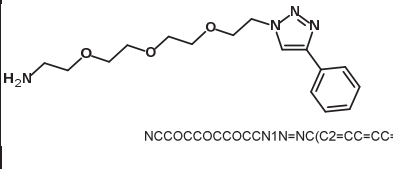
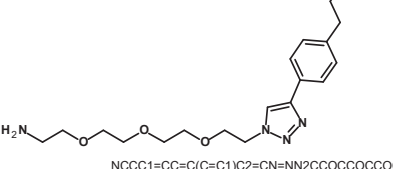
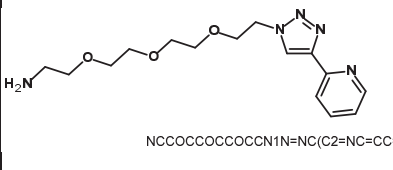
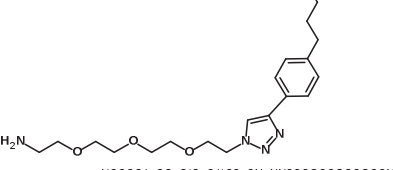
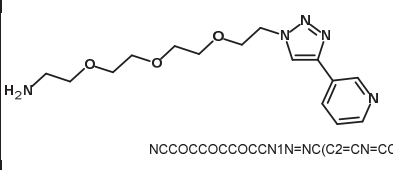
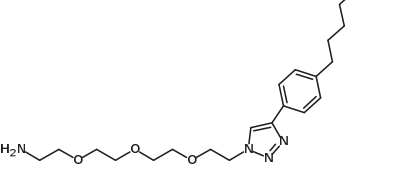
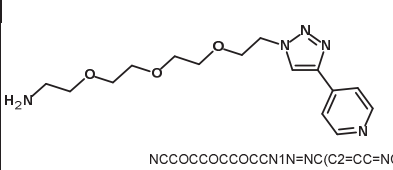
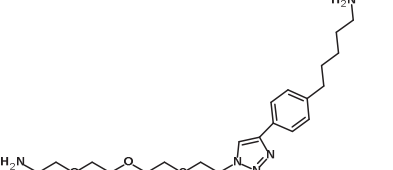
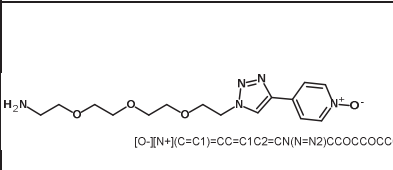
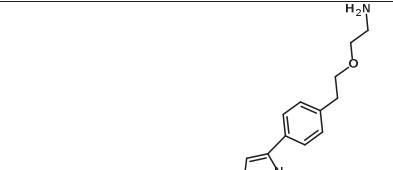
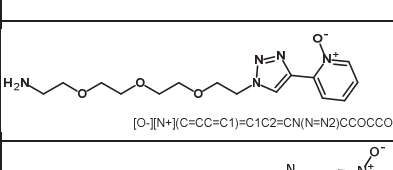
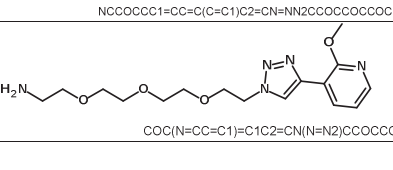
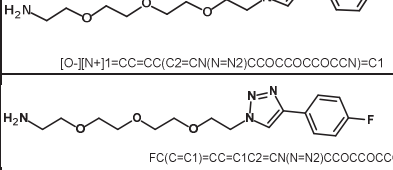
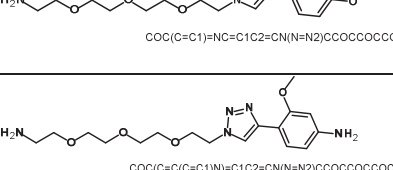
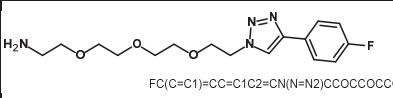
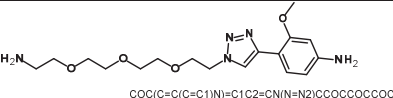
|      |                                                                                     |      |                                                                                      |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 1441 |    | 1451 |    |
| 1442 |    | 1452 |    |
| 1443 |    | 1453 |    |
| 1444 |    | 1454 |    |
| 1445 |   | 1455 |   |
| 1446 |  | 1456 |  |
| 1447 |  | 1457 |  |
| 1448 |  | 1458 |  |
| 1449 |  | 1459 |  |
| 1450 |  | 1460 |  |

FIGURE 3BB

|      |  |      |  |
|------|--|------|--|
| 1461 |  | 1472 |  |
| 1462 |  | 1473 |  |
| 1463 |  | 1474 |  |
| 1464 |  | 1475 |  |
| 1465 |  | 1476 |  |
| 1466 |  | 1477 |  |
| 1467 |  | 1478 |  |
| 1468 |  | 1479 |  |
| 1469 |  | 1480 |  |
| 1470 |  | 1481 |  |
| 1471 |  | 1482 |  |

FIGURE 3CC

|      |                                                              |      |                                                              |
|------|--------------------------------------------------------------|------|--------------------------------------------------------------|
| 1483 | <br><chem>COCC(NC1=CC=C(C(=O)O)C2=CN=NN2COCOCOCOC</chem>     | 1493 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC3=C(C(=O)O)C</chem>        |
| 1484 | <br><chem>COCC(NC1=CC=C(C(=O)O)C2=CN=NN2COCOCOCOC</chem>     | 1494 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC3=C(C(=O)O)C</chem>        |
| 1485 | <br><chem>O=S(NC(C=C1)=CC=C1C2=CN(N=N2)COCOCOCOCOC</chem>    | 1495 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC3=C(C(=O)O)C</chem>        |
| 1486 | <br><chem>O=C(C1)NC(C=C2)=C1C=C2C3=CN(N=N3)COCOCOCOC</chem>  | 1496 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC3=C(C(=O)O)C</chem>        |
| 1487 | <br><chem>O=C(C1)NC(C=C2)=C1C=C2C3=CN(N=N3)COCOCOCOC</chem>  | 1497 | <br><chem>O=C(N1)CNC(C=C2)=C1C=C2C3=CN(N=N3)COCOCOCOC</chem> |
| 1488 | <br><chem>O=C(C1)NC(C=C2)=C1C=C2C3=CN(N=N3)COCOCOCOC</chem>  | 1498 | <br><chem>O=C(C1)NC(C=C2)=C1C=C2C3=CN(N=N3)COCOCOCOC</chem>  |
| 1489 | <br><chem>O=C(NC1)NC(C=C2)=C1C=C2C3=CN(N=N3)COCOCOCOC</chem> | 1499 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC=CO2)C</chem>              |
| 1490 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC=CO2)C</chem>              | 1500 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC=CO2)C</chem>              |
| 1491 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC=CO2)C</chem>              | 1501 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC=CO2)C</chem>              |
| 1492 | <br><chem>O=C(C1)NC(C=C2)=C1C=C2C3=CN(N=N3)COCOCOCOC</chem>  | 1502 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CSC=C2)C</chem>              |

**FIGURE 3DD**

|      |  |      |  |
|------|--|------|--|
| 1503 |  | 1513 |  |
| 1504 |  | 1514 |  |
| 1505 |  | 1515 |  |
| 1506 |  | 1516 |  |
| 1507 |  | 1517 |  |
| 1508 |  | 1518 |  |
| 1509 |  | 1519 |  |
| 1510 |  | 1520 |  |
| 1511 |  | 1521 |  |
| 1512 |  | 1522 |  |

**FIGURE 3EE**

|      |                                            |      |                                                   |
|------|--------------------------------------------|------|---------------------------------------------------|
| 1523 | <br>NC(C=C1)=CC=C1CCG2=CN(N=N2)COCOCOCOCOC | 1533 | <br>NCCOCCOCCOCCGN1N=NC(C2=C3C(C=CC2)OC3c4ccccc4) |
| 1524 | <br>NC(C=C1)=CC=C1CCG2=CN(N=N2)COCOCOCOCOC | 1534 | <br>NCCOCCOCCOCCGN1N=NC(C2=C3C(C=CC2)OC3c4ccccc4) |
| 1525 | <br>NC(C=C1)=CC=C1CCG2=CN(N=N2)COCOCOCOCOC | 1535 | <br>NCCOCCOCCOCCGN1N=NC(C2=C3C(C=CC2)OC3c4ccccc4) |
| 1526 | <br>NC(C=C1)=CC=C1CCG2=CN(N=N2)COCOCOCOCOC | 1536 | <br>NCCOCCOCCOCCGN1N=NC(C2=C3C(C=CC2)OC3c4ccccc4) |
| 1527 | <br>NC(C=C1)=CC=C1CCG2=CN(N=N2)COCOCOCOCOC | 1537 | <br>NCCOCCOCCOCCGN1N=NC(C2=C3C(C=CC2)OC3c4ccccc4) |
| 1528 | <br>NC(C=C1)=CC=C1CCG2=CN(N=N2)COCOCOCOCOC | 1538 | <br>NCCOCCOCCOCCGN1N=NC(C2=C3C(C=CC2)OC3c4ccccc4) |
| 1529 | <br>COC(C=CC=C1)=C1CC2=CN(N=N2)COCOC       | 1539 | <br>NCCOCCOCCOCCGN1N=NC(C2=C3C(C=CC2)OC3c4ccccc4) |
| 1530 | <br>CC(C1=C(C=CC=C1)OC)C2=CN(N=N2)CC       | 1540 | <br>NCCOCCOCCOCCGN1N=NC(C2=C3C(C=CC2)OC3c4ccccc4) |
| 1531 | <br>NC(C=C1)=CC=C1CCG2=CN(N=N2)COCOCOCOCOC | 1541 | <br>NCCOCCOCCOCCGN1N=NC(C2=C3C(C=CC2)OC3c4ccccc4) |
| 1532 | <br>NC(C=C1)=CC=C1CC2=CN(N=N2)CCOC         | 1542 | <br>NCCOCCOCCOCCGN1N=NC(C2=C3C(C=CC2)OC3c4ccccc4) |

**FIGURE 3FF**

[illegible]

**FIGURE 3GG**

[illegible]

FIGURE 3HH

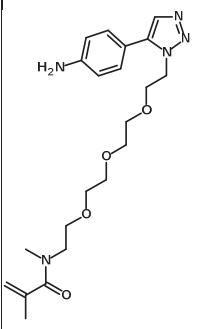
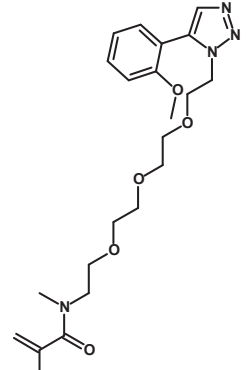
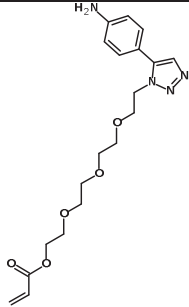
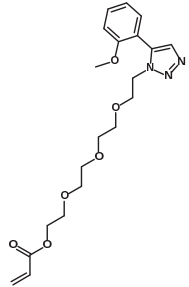
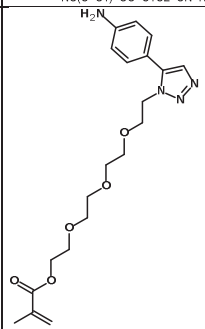
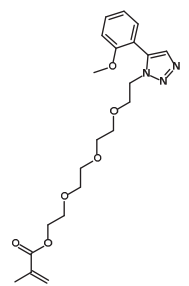
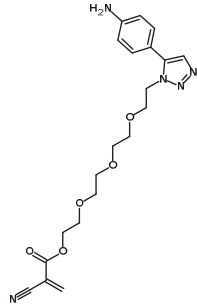
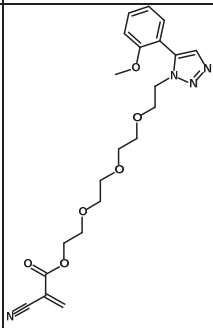
|      |                                                                                                                                             |      |                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1565 |  <chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCN(C(C)C)=O</chem> | 1569 |  <chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCN(C(C)C)=O</chem> |
| 1566 |  <chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCOC(C)C=O</chem>   | 1570 |  <chem>COC(C=C=C1)=C1C2=CN=NN2COCOCOCOCOCOC(C)C=O</chem>   |
| 1567 |  <chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCOC(C)C=O</chem>  | 1571 |  <chem>COC(C=C=C1)=C1C2=CN=NN2COCOCOCOCOCOC(C)C=O</chem>  |
| 1568 |  <chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCOC(C)C=O</chem> | 1572 |  <chem>COC(C=C=C1)=C1C2=CN=NN2COCOCOCOCOCOC(C)C=O</chem> |

FIGURE 3II

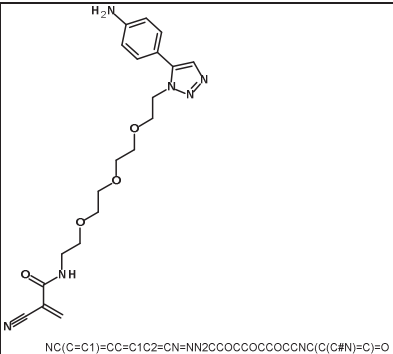
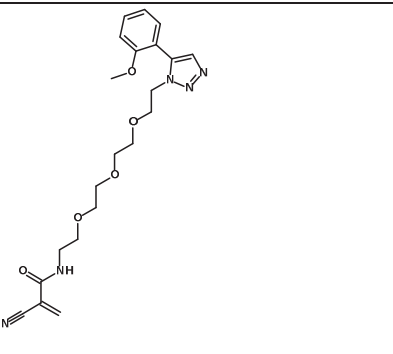
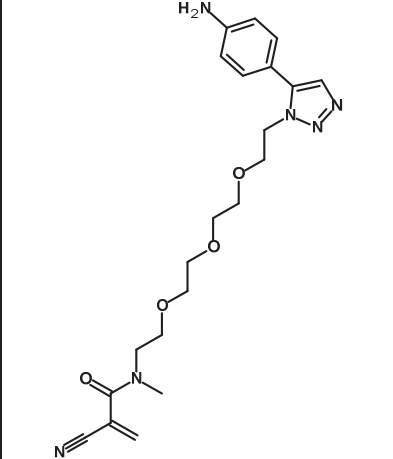
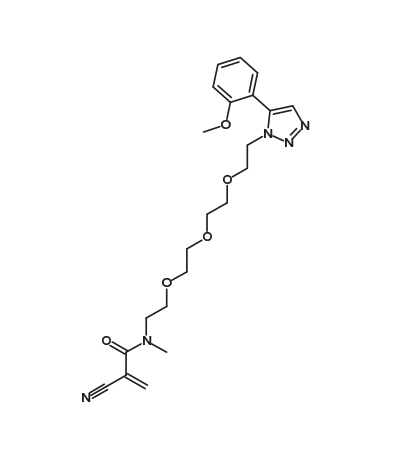
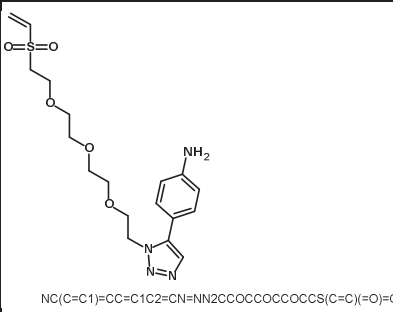
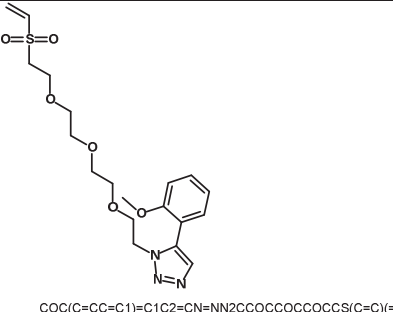
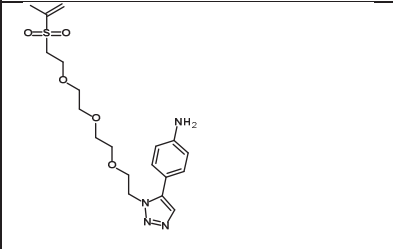
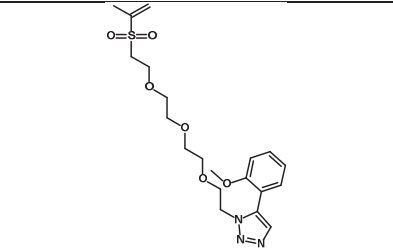
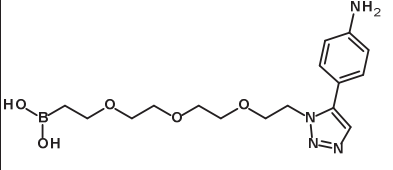
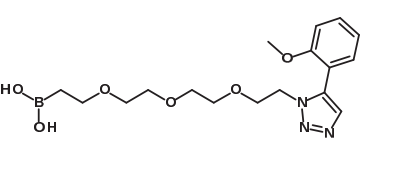
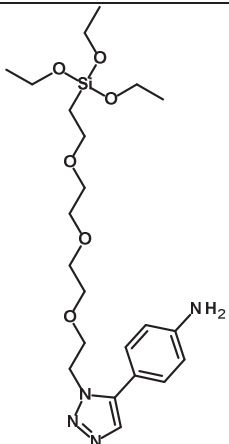
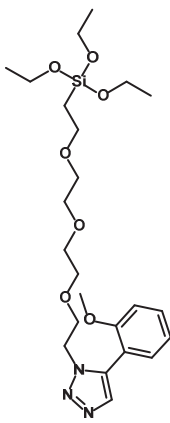
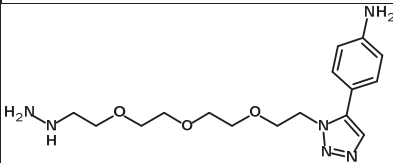
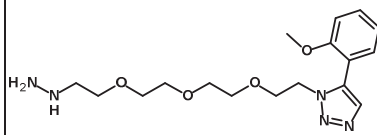
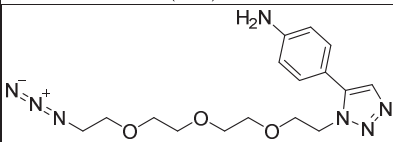
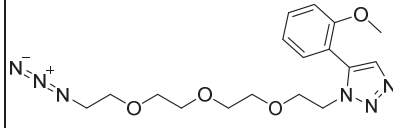
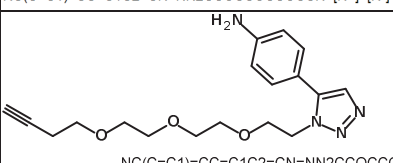
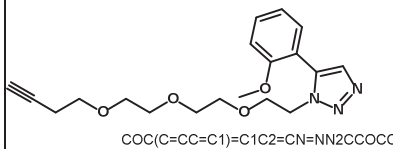
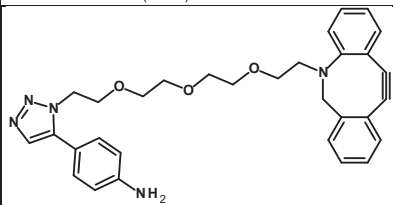
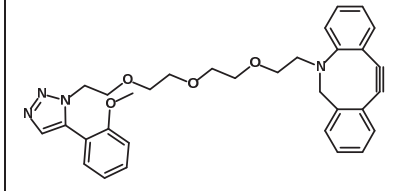
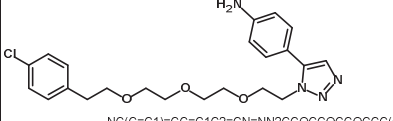
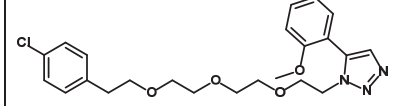
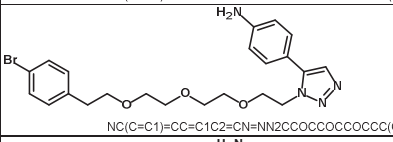
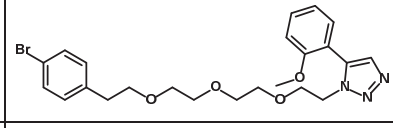
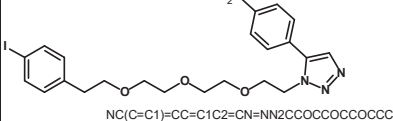
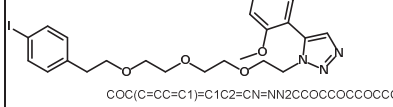
|      |                                                                                                                                                      |      |                                                                                                                                                        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1573 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCNC(C(C#N)=C)=O</chem>   | 1578 |                                                                      |
| 1574 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCNC(C(C#N)=C)=O</chem>  | 1579 |                                                                     |
| 1575 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCNC(C(C#N)=C)=O</chem> | 1580 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2COCOCOCOCOCNC(C(C#N)=C)=O</chem> |
| 1576 |                                                                   | 1581 |                                                                    |
| 1577 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCNC(C(C#N)=C)=O</chem> | 1582 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCNC(C(C#N)=C)=O</chem>  |

FIGURE 3JJ

|      |  |      |  |
|------|--|------|--|
| 1583 |  | 1589 |  |
| 1584 |  | 1590 |  |
| 1585 |  | 1591 |  |
| 1586 |  | 1592 |  |
| 1587 |  | 1593 |  |
| 1588 |  | 1594 |  |

FIGURE 3KK

|      |                                                                                                                                                |      |                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 1595 |                                                               | 1603 |                                                               |
| 1596 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOC</chem>                  | 1604 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOC</chem>                  |
| 1597 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCOCOCOCN=[N+]=[N-]</chem> | 1605 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCOCOCOCN=[N+]=[N-]</chem> |
| 1598 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCOC</chem>              | 1606 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCOC</chem>              |
| 1599 |                                                             | 1607 |                                                              |
| 1600 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCOCOCOCOC</chem>        | 1608 |                                                              |
| 1601 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCOCOCOCOC</chem>        | 1609 |                                                              |
| 1602 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCOCOCOCOC</chem>        | 1610 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCOCOCOCOC</chem>        |

**FIGURE 3LL**

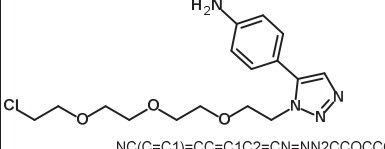
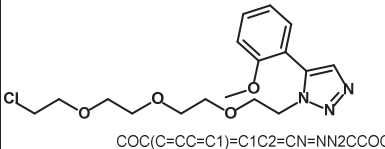
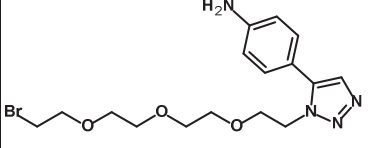
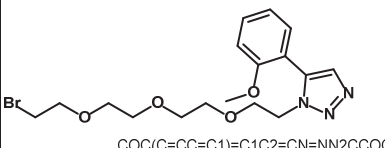
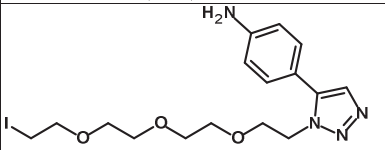
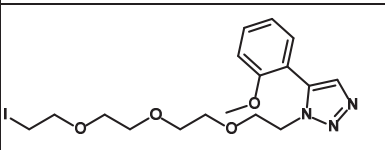
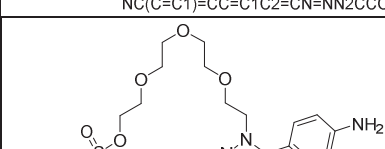
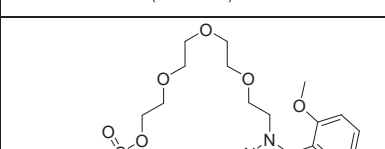
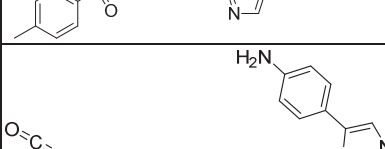
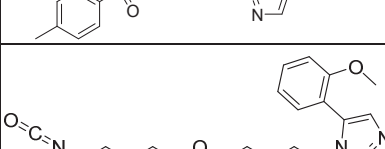
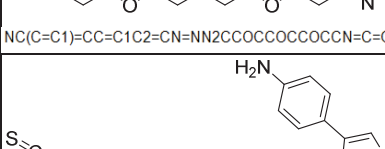
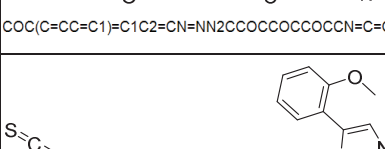
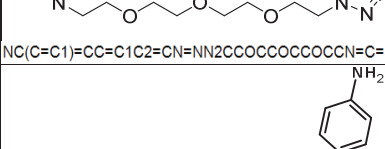
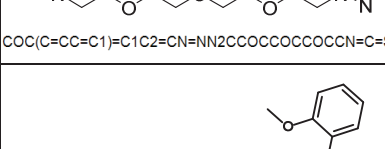
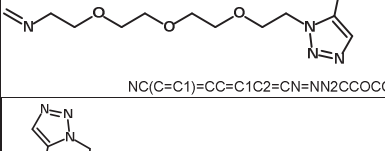
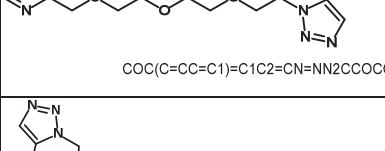
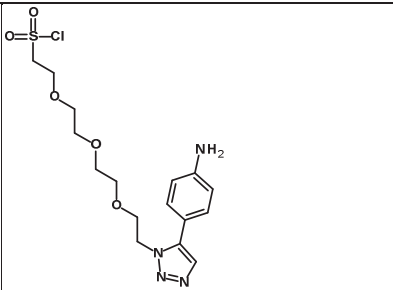
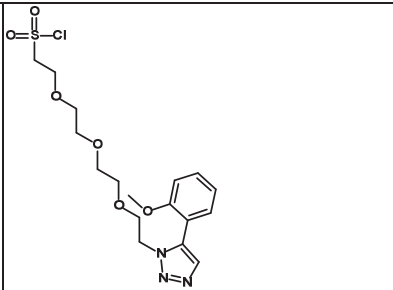
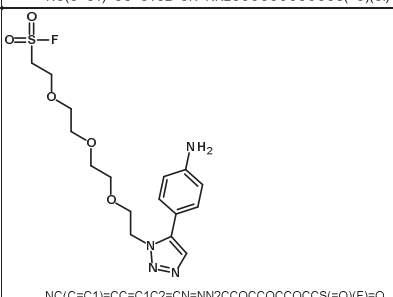
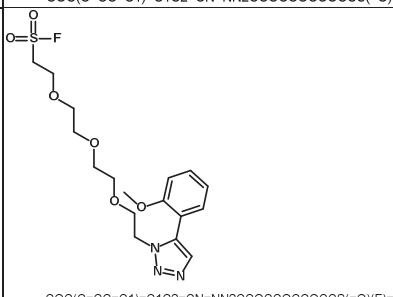
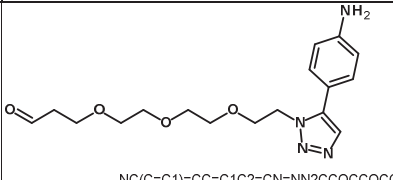
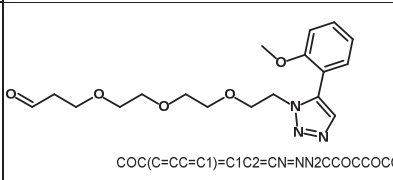
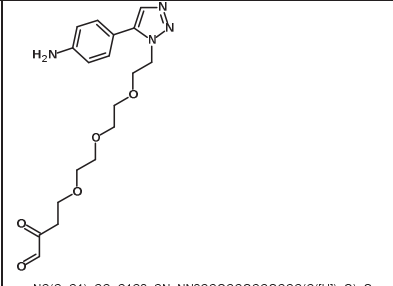
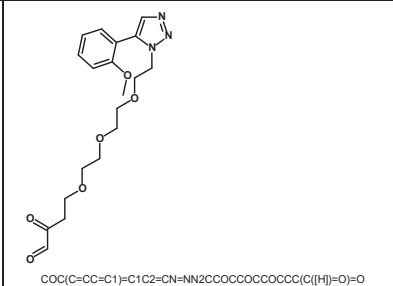
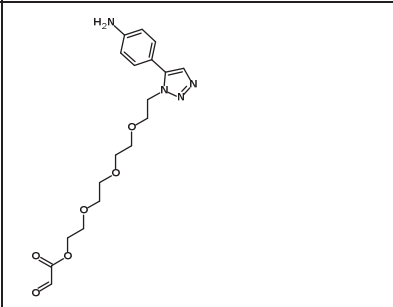
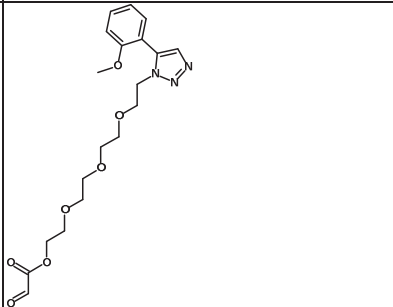
|      |                                                                                                                                                           |      |                                                                                                                                                             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1611 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCCOCCl</chem>               | 1619 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCOCCl</chem>                  |
| 1612 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCCBr</chem>                 | 1620 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCBr</chem>                    |
| 1613 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCCI</chem>                  | 1621 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCI</chem>                     |
| 1614 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOS(=O)(=O)c1ccc(C)cc1</chem> | 1622 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCOS(=O)(=O)c1ccc(C)cc1</chem> |
| 1615 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCC(=O)N</chem>             | 1623 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCC(=O)N</chem>                |
| 1616 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCC(=S)N</chem>            | 1624 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCC(=S)N</chem>               |
| 1617 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCC#N</chem>               | 1625 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCC#N</chem>                  |
| 1618 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCC1CO1</chem>             | 1626 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCOCC1CO1</chem>             |

FIGURE 3MM

|      |                                                                                                                                               |      |                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1627 |  <chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCS(=O)(Cl)=O</chem>  | 1632 |  <chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCS(=O)(Cl)=O</chem>  |
| 1628 |  <chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCS(=O)(F)=O</chem>   | 1633 |  <chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCS(=O)(F)=O</chem>   |
| 1629 |  <chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCS(=O)(F)=O</chem>   | 1634 |  <chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCS(=O)(F)=O</chem>   |
| 1630 |  <chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCS(=O)(F)=O</chem> | 1635 |  <chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCS(=O)(F)=O</chem> |
| 1631 |  <chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCS(=O)(F)=O</chem> | 1636 |  <chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCS(=O)(F)=O</chem> |

**FIGURE 3NN**

|      |  |      |  |
|------|--|------|--|
| 1637 |  | 1642 |  |
| 1638 |  | 1643 |  |
| 1639 |  | 1644 |  |
| 1640 |  | 1645 |  |
| 1641 |  | 1646 |  |

FIGURE 300

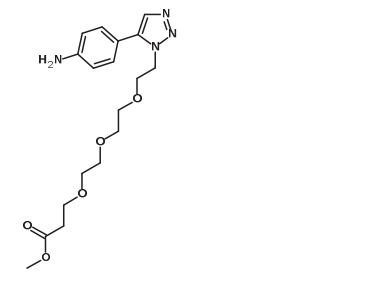
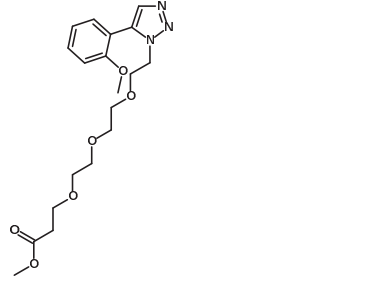
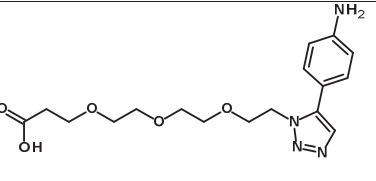
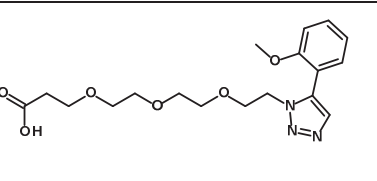
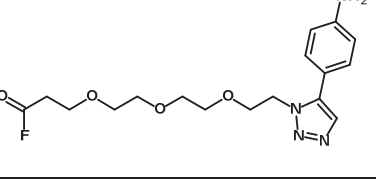
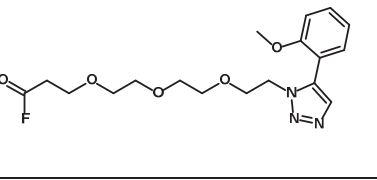
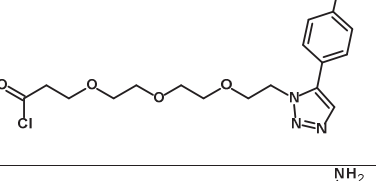
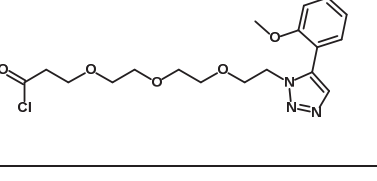
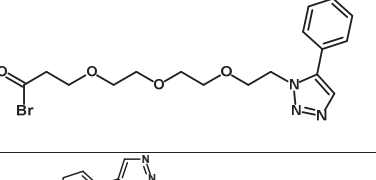
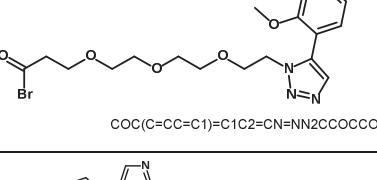
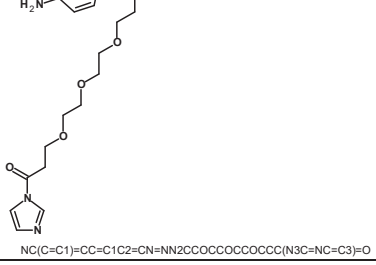
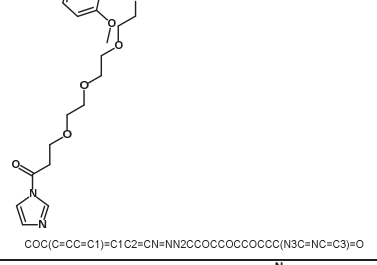
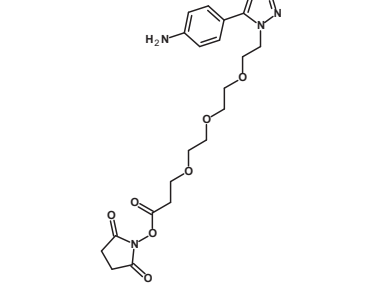
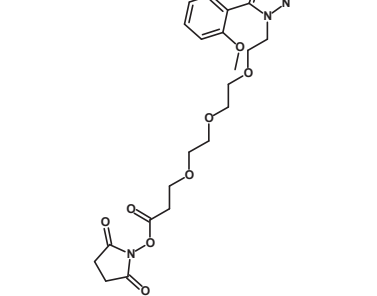
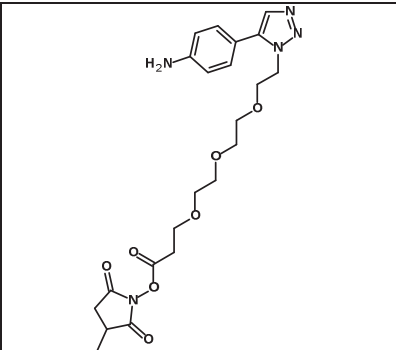
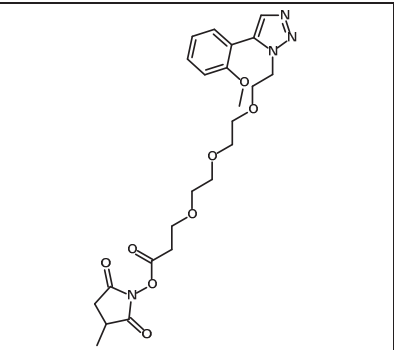
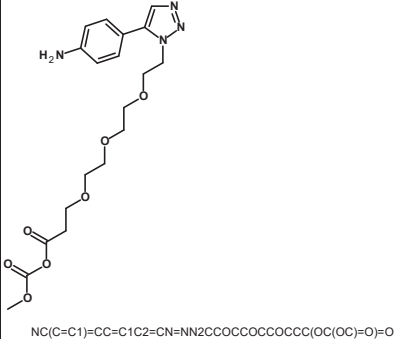
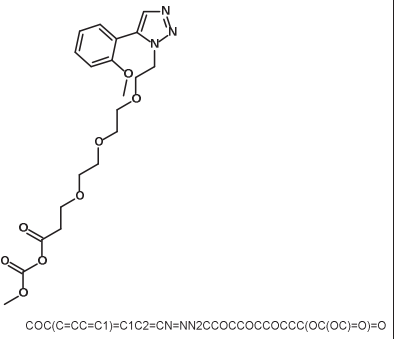
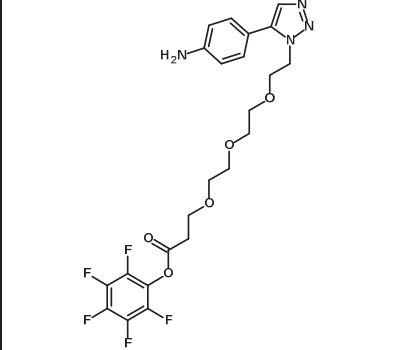
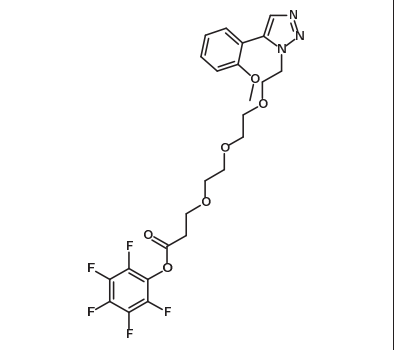
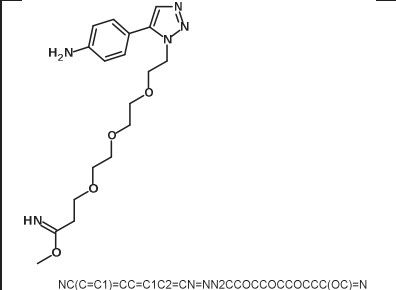
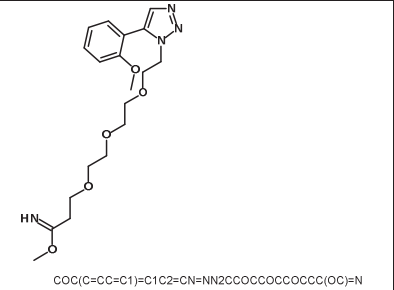
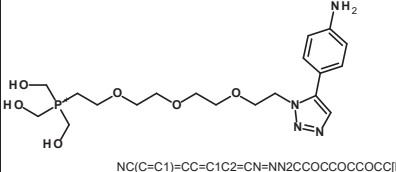
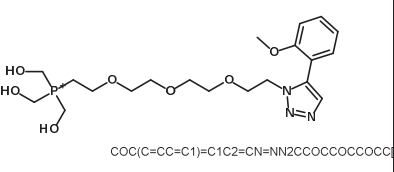
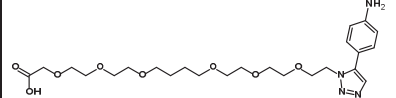
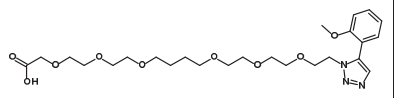
|      |                                                                                                                                                       |      |                                                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1647 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCOC(OC)=O</chem>          | 1654 |                                                                       |
| 1648 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOC(=O)O</chem>             | 1655 |                                                                       |
| 1649 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOC(=O)F</chem>             | 1656 |                                                                       |
| 1650 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOC(=O)Cl</chem>           | 1657 |                                                                      |
| 1651 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOC(=O)Br</chem>          | 1658 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2COCOCOC(=O)Br</chem>              |
| 1652 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOC(=O)N3C=NC=C3=O</chem> | 1659 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2COCOCOCOCOC(=O)N3C=NC=C3=O</chem> |
| 1653 |                                                                    | 1660 |                                                                     |

FIGURE 3PP

|      |                                                                                                                                                     |      |                                                                                                                                                          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1661 |                                                                    | 1667 |                                                                        |
| 1662 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCC(OC(OC)=O)=O</chem> | 1668 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCOCCOCC(OC(OC)=O)=O</chem> |
| 1663 |                                                                   | 1669 |                                                                       |
| 1664 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCCOCC(OC)=N</chem>  | 1670 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCOCCOCC(OC)=N</chem>     |
| 1665 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCCOCC(OC)=N</chem>  | 1671 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCOCCOCC(OC)=N</chem>     |
| 1666 |                                                                  | 1672 |                                                                      |

**FIGURE 3QQ**

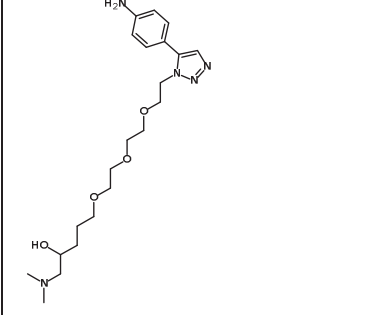
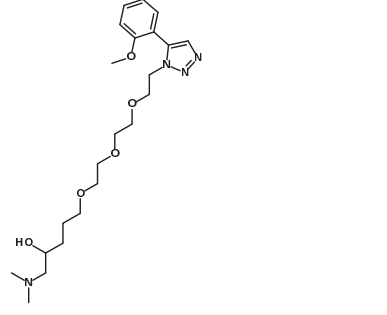
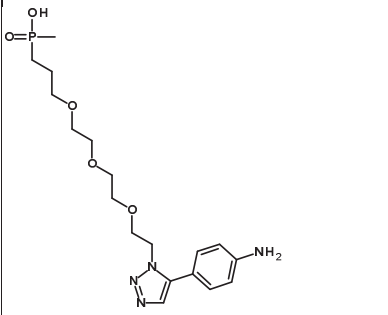
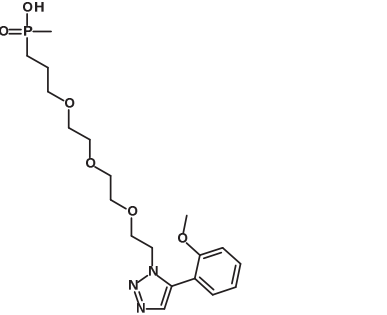
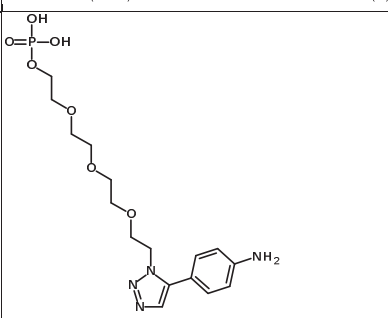
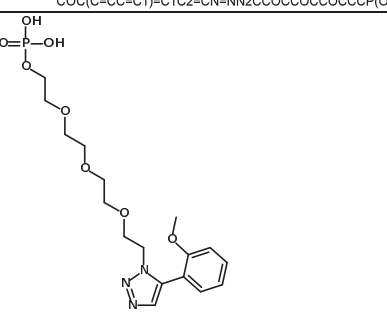
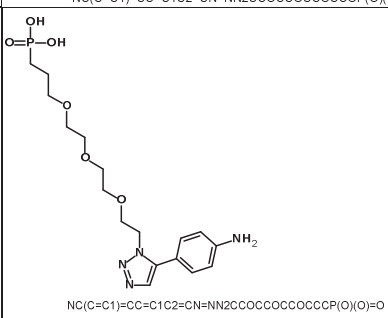
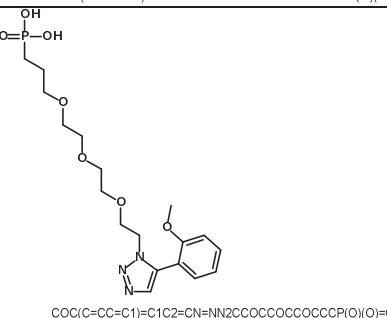
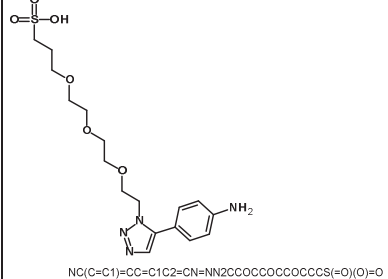
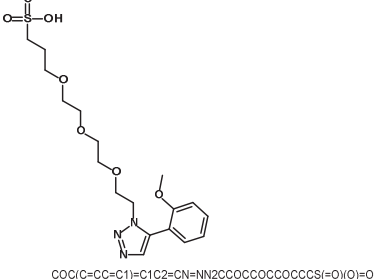
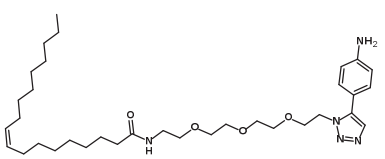
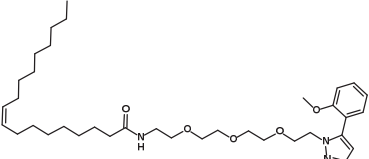
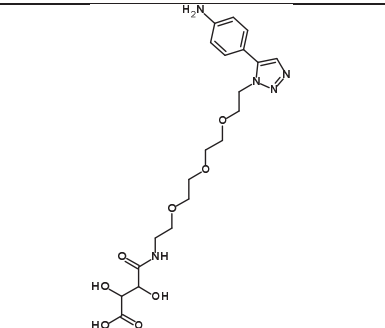
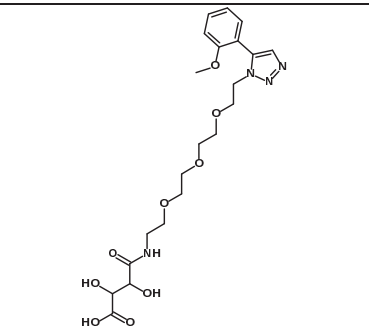
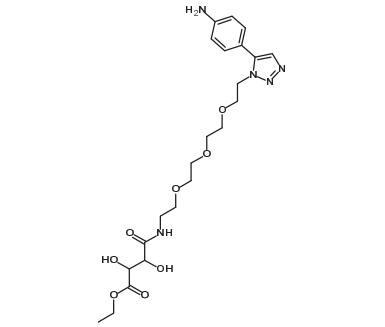
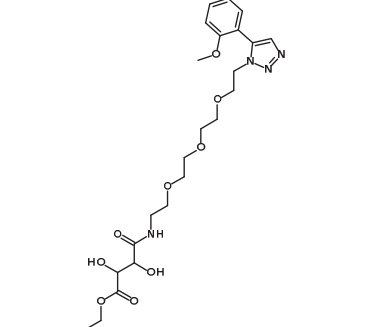
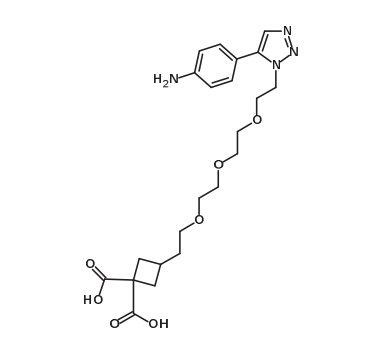
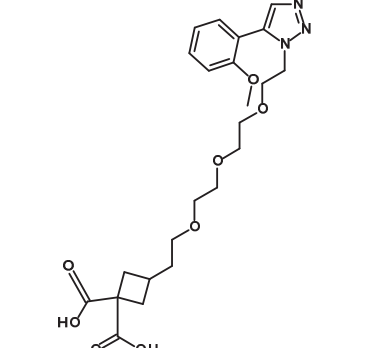
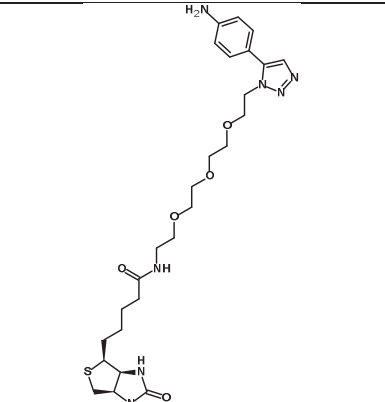
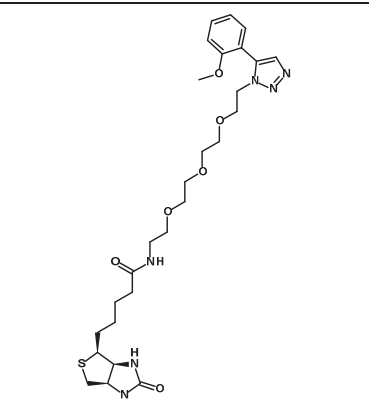
|      |                                                                                                                                               |      |                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1673 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOC(CN(C)C)O</chem> | 1678 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2COCOCOCOCOC(CN(C)C)O</chem> |
| 1674 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCOP(O)(O)O</chem> | 1679 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2COCOCOCOCOCOP(O)(O)O</chem> |
| 1675 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOP(O)(O)O</chem>  | 1680 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2COCOCOCOCOP(O)(O)O</chem>  |
| 1676 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOP(O)(O)O</chem> | 1681 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2COCOCOCOCOP(O)(O)O</chem> |
| 1677 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOP(O)(O)O</chem> | 1682 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2COCOCOCOCOP(O)(O)O</chem> |

FIGURE 3RR

|      |                                                                                     |      |                                                                                      |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 1683 |    | 1688 |    |
| 1684 |    | 1689 |    |
| 1685 |   | 1690 |   |
| 1686 |  | 1691 |  |
| 1687 |  | 1692 |  |

**FIGURE 3SS**

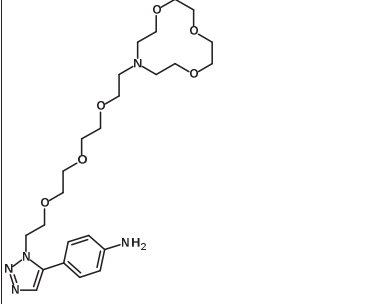
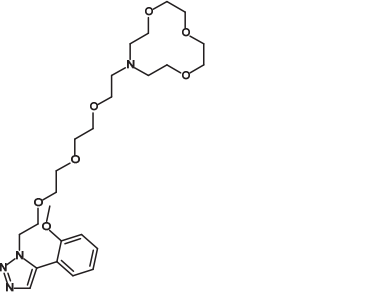
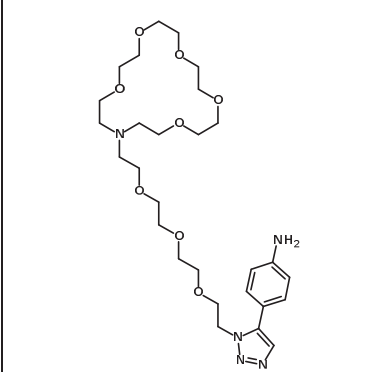
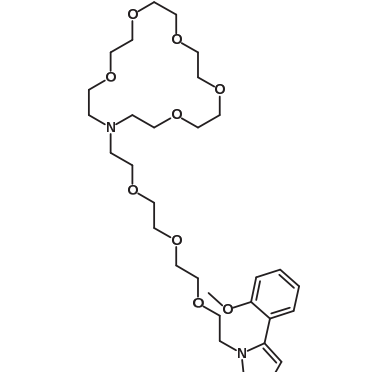
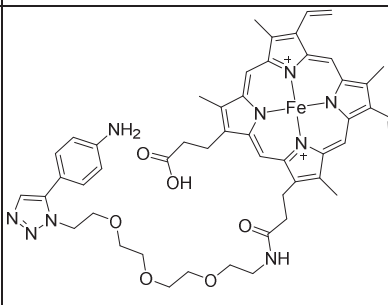
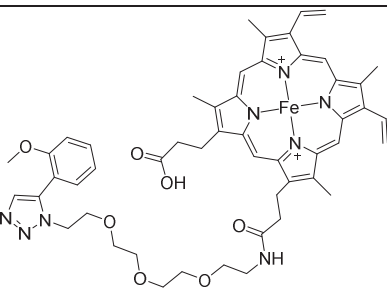
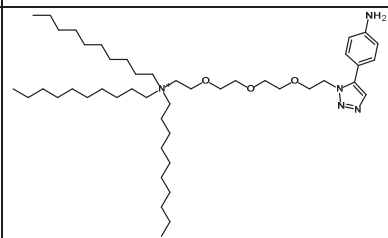
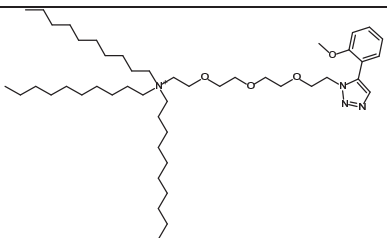
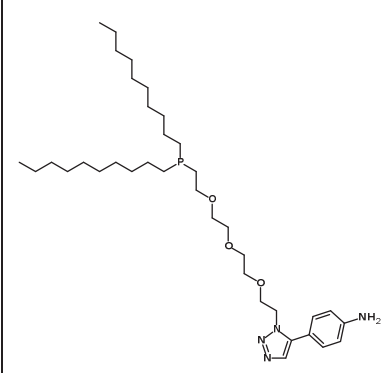
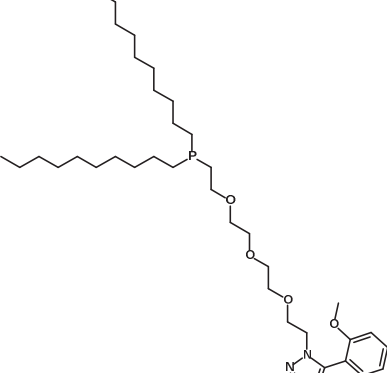
|      |                                                                                                                                                 |      |                                                                                                                                                  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 1693 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCN3COCOCOCOC</chem> | 1698 | <br><chem>COC(C=C=C1)=C1C2=CN=NN2COCOCOCOCOCN3COCOCOCOC</chem> |
| 1694 |                                                                | 1699 |                                                                |
| 1695 |                                                               | 1700 |                                                               |
| 1696 |                                                              | 1701 |                                                              |
| 1697 |                                                              | 1702 |                                                              |

FIGURE 3TT

|      |  |      |  |
|------|--|------|--|
| 1703 |  | 1708 |  |
| 1704 |  | 1709 |  |
| 1705 |  | 1710 |  |
| 1706 |  | 1711 |  |
| 1707 |  | 1712 |  |

FIGURE 3UU

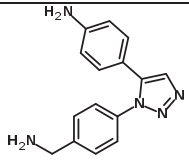
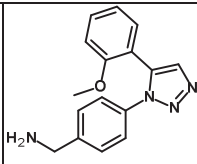
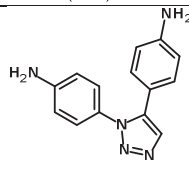
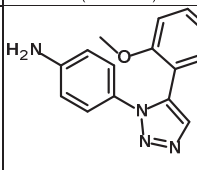
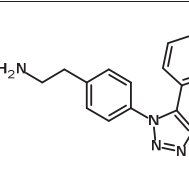
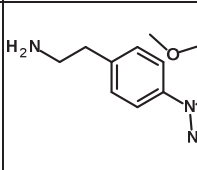
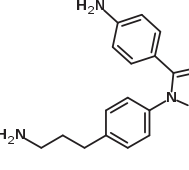
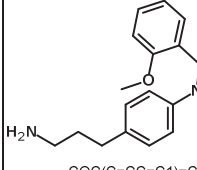
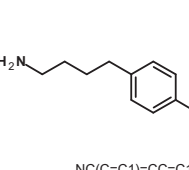
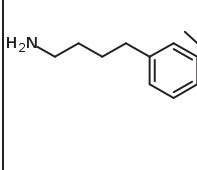
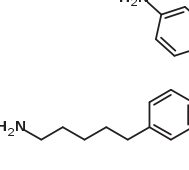
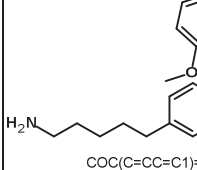
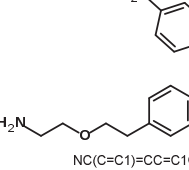
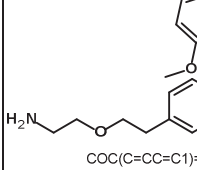
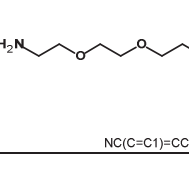
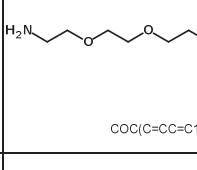
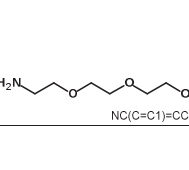
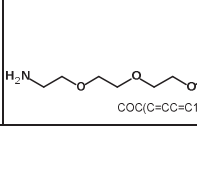
|      |                                                                                                                                            |      |                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1713 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem>   | 1722 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem>   |
| 1714 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)N</chem>    | 1723 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)N</chem>    |
| 1715 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem>   | 1724 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem>   |
| 1716 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem>   | 1725 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem>   |
| 1717 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem>  | 1726 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem>  |
| 1718 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem> | 1727 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem> |
| 1719 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem> | 1728 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem> |
| 1720 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem> | 1729 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem> |
| 1721 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem> | 1730 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem> |

FIGURE 3VV

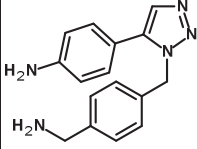
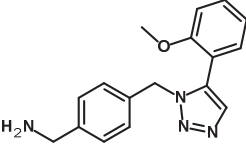
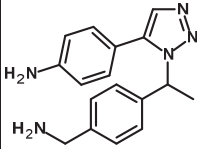
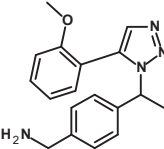
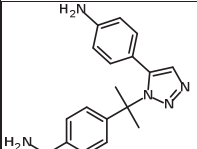
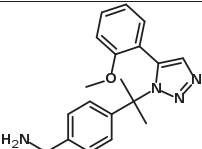
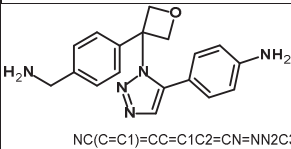
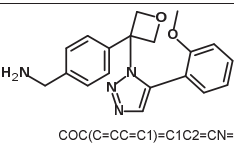
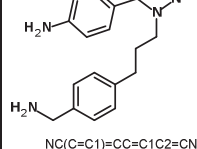
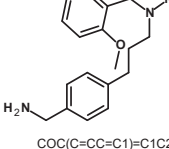
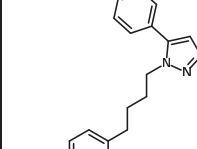
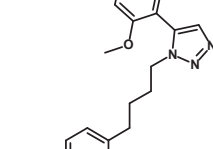
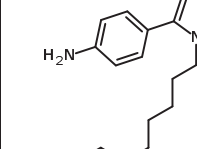
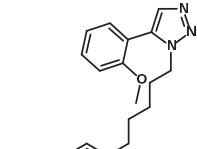
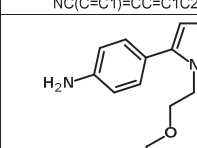
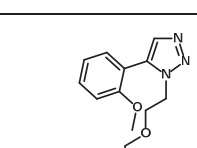
|      |                                                                                                                                                |      |                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 1731 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CC3=CC=C(C=C3)N</chem>       | 1739 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(C)C3=CC=C(C=C3)N</chem>    |
| 1732 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CC3=CC=C(C=C3)N</chem>       | 1740 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(C)C3=CC=C(C=C3)N</chem>    |
| 1733 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CC3=CC=C(C=C3)N</chem>       | 1741 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(C)C3=CC=C(C=C3)N</chem>    |
| 1734 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3(COC3)C(C=C4)C</chem>      | 1742 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3(COC3)C(C=C4)C</chem>      |
| 1735 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCCC3=CC=C(C=C3)CN</chem>   | 1743 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCCC3=CC=C(C=C3)CN</chem>   |
| 1736 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCCC3=CC=C(C=C3)CN</chem>  | 1744 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCCC3=CC=C(C=C3)CN</chem>  |
| 1737 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCCCC3=CC=C(C=C3)CN</chem> | 1745 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCCCC3=CC=C(C=C3)CN</chem> |
| 1738 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCC3=CC=C(C=C3)CN</chem> | 1746 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCC3=CC=C(C=C3)CN</chem> |

FIGURE 3WW

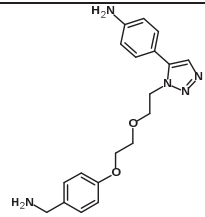
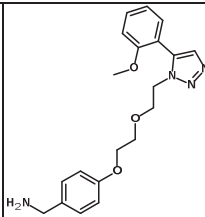
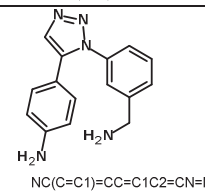
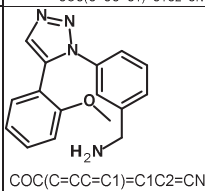
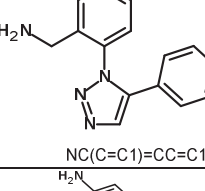
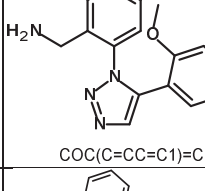
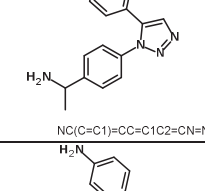
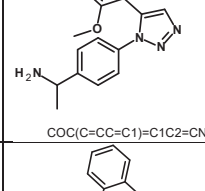
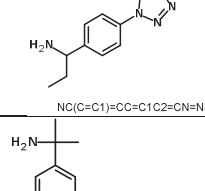
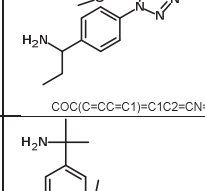
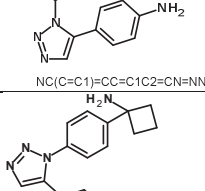
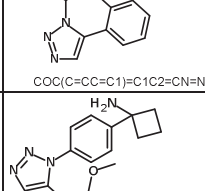
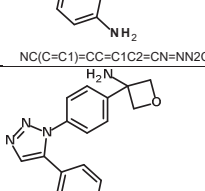
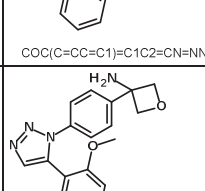
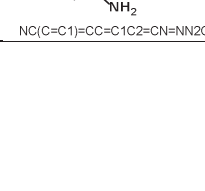
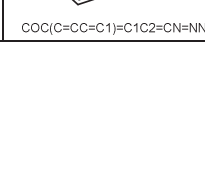
|      |                                                                                                                                                   |      |                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1747 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOC3=CC=C(C=C3)CN</chem>    | 1755 | <br><chem>COC(C=C=C1)=C1C2=CN=NN2COCOCOC3=CC=C(C=C3)CN</chem>     |
| 1748 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=CC(CN)=C3</chem>          | 1756 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=CC(CN)=C3</chem>          |
| 1749 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)C(C)N</chem>       | 1757 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)C(C)N</chem>       |
| 1750 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)C(C)N</chem>      | 1758 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)C(C)N</chem>      |
| 1751 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)C(C)N</chem>     | 1759 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)C(C)N</chem>     |
| 1752 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)C(C)N</chem>     | 1760 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)C(C)N</chem>     |
| 1753 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)C4(CCC4)N</chem> | 1761 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)C4(CCC4)N</chem> |
| 1754 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)C4(COC4)N</chem> | 1762 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC=C(C=C3)C4(COC4)N</chem> |

FIGURE 3XX

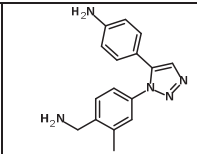
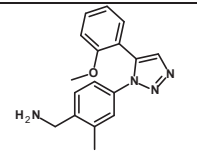
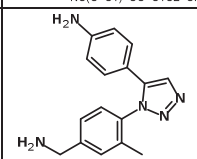
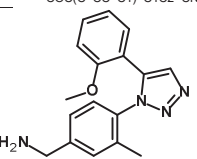
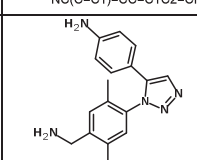
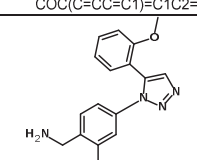
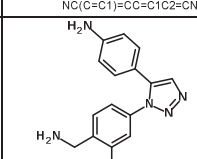
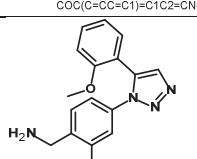
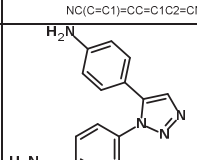
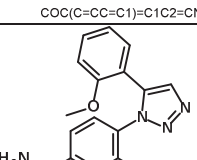
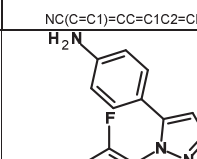
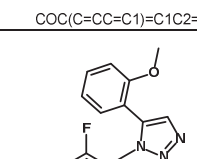
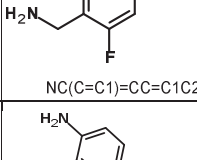
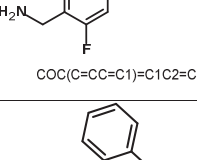
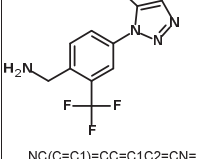
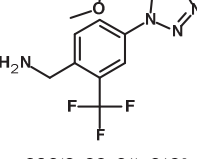
|      |                                                                                                                                                      |      |                                                                                                                                                        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1763 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC(C)=C(C=C3)CN</chem>          | 1771 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC(C)=C(C=C3)CN</chem>          |
| 1764 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C(C)=C3=CC=C3CN</chem>             | 1772 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(C)=C3=CC=C3CN</chem>             |
| 1765 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC(C)=C(C=C3)CN</chem>          | 1773 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC(C)=C(C=C3)CN</chem>          |
| 1766 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC(F)=C(C=C3)CN</chem>          | 1774 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC(F)=C(C=C3)CN</chem>          |
| 1767 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C(C(F)=C3)=CC=C3CN</chem>         | 1775 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(C(F)=C3)=CC=C3CN</chem>         |
| 1768 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC(F)=C(C=C3)CN</chem>        | 1776 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC(F)=C(C=C3)CN</chem>        |
| 1769 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC(C(F)(F)F)=C(C=C3)CN</chem> | 1777 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC(C(F)(F)F)=C(C=C3)CN</chem> |
| 1770 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C(C(C(F)(F)F)=C3)=CC=C3CN</chem> | 1778 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(C(C(F)(F)F)=C3)=CC=C3CN</chem> |

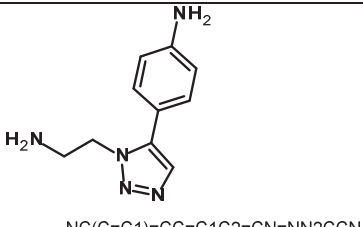
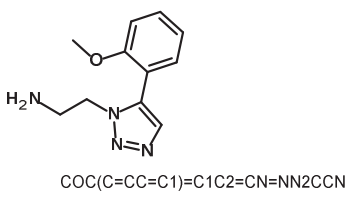
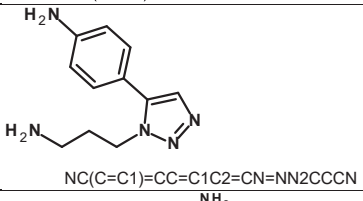
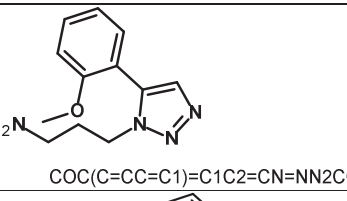
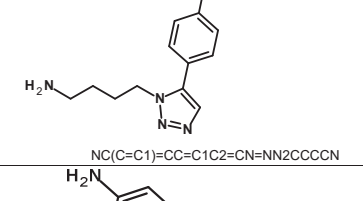
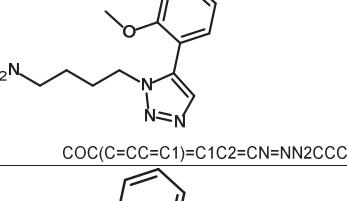
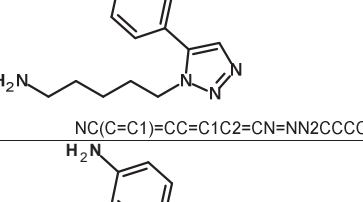
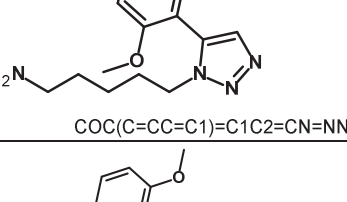
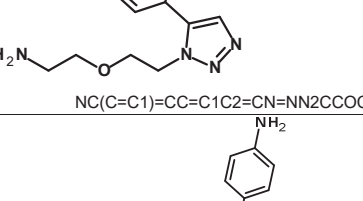
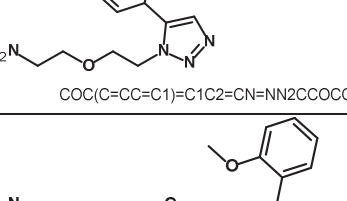
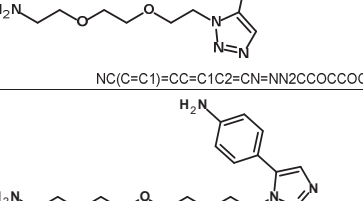
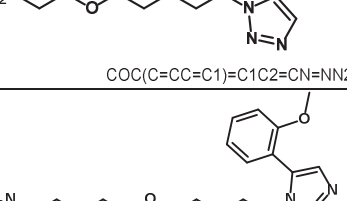
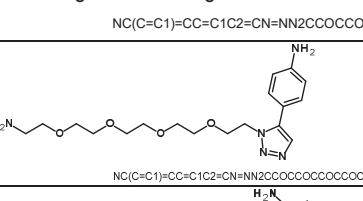
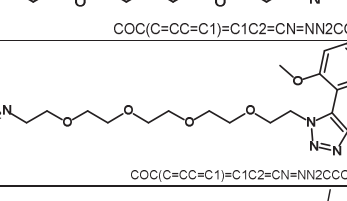
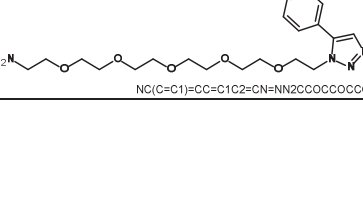
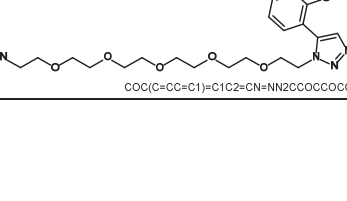
FIGURE 3YY

|      |                                                                    |      |  |
|------|--------------------------------------------------------------------|------|--|
| 1779 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC(OC(F)(F)F)=C(C=C3)CN</chem> | 1786 |  |
| 1780 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C(C(OC(F)(F)F)=C3)=CC=C3</chem>   | 1787 |  |
| 1781 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC(Cl)=C(C=C3)CN</chem>        | 1787 |  |
| 1782 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C(C(Cl)=C3)=CC=C3</chem>          | 1788 |  |
| 1783 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC(Cl)=C(C=C3)CN</chem>        | 1789 |  |
| 1784 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=NC=C(C=C3)CN</chem>            | 1790 |  |
| 1785 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CN=C(C=C3)CN</chem>            | 1791 |  |

FIGURE 3ZZ

|      |                                                    |      |                                                      |
|------|----------------------------------------------------|------|------------------------------------------------------|
| 1792 |                                                    | 1800 |                                                      |
|      | <chem>NC(C=C1)=CC=C1C2=CN=NN2C3=NC=C(C=N)N3</chem> |      | <chem>COC(C=CC=C1)=C1C2=CN=NN2C3=NC=C(C=N3)N3</chem> |
| 1793 |                                                    | 1801 |                                                      |
|      | <chem>NC(C=C1)=CC=C1C2=CN=NN2C(N=C3)=CN=C3</chem>  |      | <chem>COC(C=CC=C1)=C1C2=CN=NN2C(N=C3)=CN=C3C3</chem> |
| 1794 |                                                    | 1802 |                                                      |
|      | <chem>NC(C=C1)=CC=C1C2=CN=NN2C(S3)=CC=C3C3</chem>  |      | <chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3C3</chem>   |
| 1795 |                                                    | 1803 |                                                      |
|      | <chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CSC(CN)=C3</chem>  |      | <chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CSC(CN)=C3</chem>   |
| 1796 |                                                    | 1804 |                                                      |
|      | <chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CC(CN)=CS3</chem>  |      | <chem>COC(C=CC=C1)=C1C2=CN=NN2C3=CC(CN)=CS3</chem>   |
| 1797 |                                                    | 1805 |                                                      |
|      | <chem>NC(C=C1)=CC=C1C2=CN=NN2C3CCC(CC3)CN</chem>   |      | <chem>COC(C=CC=C1)=C1C2=CN=NN2C3CCC(CC3)CN</chem>    |
| 1798 |                                                    | 1806 |                                                      |
|      | <chem>NC(C=C1)=CC=C1C2=CN=NN2C3CC(CC3)CN</chem>    |      | <chem>COC(C=CC=C1)=C1C2=CN=NN2C3CC(CC3)CN</chem>     |
| 1799 |                                                    | 1807 |                                                      |
|      | <chem>NC(C=C1)=CC=C1C2=CN=NN2C3CC(CC3)CN</chem>    |      | <chem>COC(C=CC=C1)=C1C2=CN=NN2C3CC(CC3)CN</chem>     |

FIGURE 3AAA

|      |                                                                                                                                               |      |                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1808 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCN</chem>                  | 1817 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCN</chem>                  |
| 1809 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCCN</chem>                 | 1818 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCCN</chem>                 |
| 1810 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCCCN</chem>                | 1819 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCCCN</chem>                |
| 1811 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCCCCN</chem>              | 1820 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCCCN</chem>               |
| 1812 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCN</chem>             | 1821 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCN</chem>             |
| 1813 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCN</chem>          | 1822 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCN</chem>          |
| 1814 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCN</chem>       | 1823 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCN</chem>       |
| 1815 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCCN</chem>    | 1824 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCOCCN</chem>    |
| 1816 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCOCCOCCN</chem> | 1825 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCOCCOCCN</chem> |

**FIGURE 3BBB**

|      |                                                               |      |                                                                  |
|------|---------------------------------------------------------------|------|------------------------------------------------------------------|
| 1826 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCOCOCOCOCOC</chem> | 1837 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2COCOCOCOCOCOCOCOCOCOC</chem>   |
| 1827 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2COCOCOCOCOCOCOCOCOCOC</chem> | 1838 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2COCOCOCOCOCOCOCOCOCOC</chem>   |
| 1828 |                                                               | 1839 | <br><chem>H2NCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO</chem> |
| 1829 |                                                               | 1840 |                                                                  |
| 1830 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2CC3(COC3)CN</chem>           | 1841 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2CC3(COC3)CN</chem>             |
| 1831 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3COC(C3)CN</chem>           | 1842 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3COC(C3)CN</chem>             |
| 1832 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3OCC(C3)CN</chem>           | 1843 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3OCC(C3)CN</chem>             |
| 1833 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3OCC(OC3)CN</chem>          | 1844 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3OCC(OC3)CN</chem>            |
| 1834 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3CCN(CC3)CN</chem>          | 1845 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3CCN(CC3)CN</chem>            |
| 1835 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3CC(OC3)CN</chem>           | 1846 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3CC(OC3)CN</chem>             |
| 1836 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3OC(CC3)CN</chem>           | 1847 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3OC(CC3)CN</chem>             |

FIGURE 3CCC

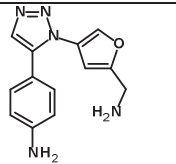
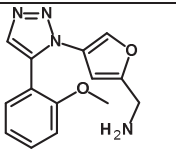
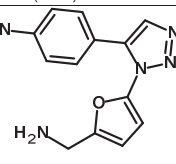
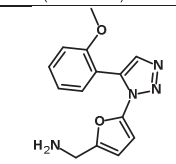
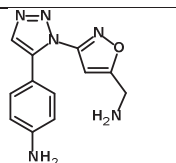
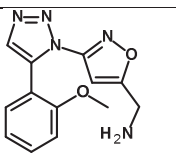
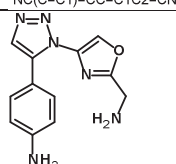
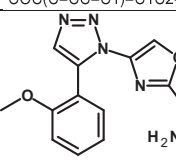
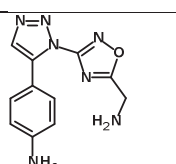
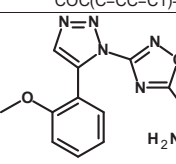
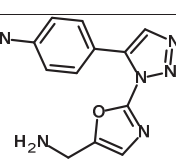
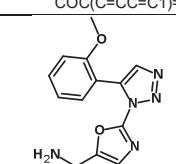
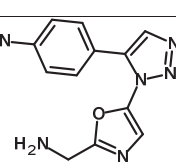
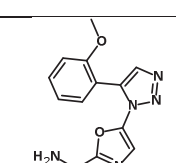
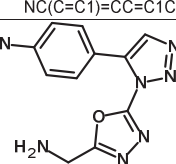
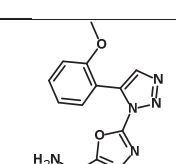
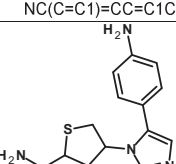
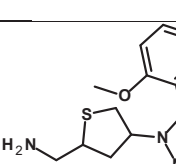
|      |                                                                                                                                          |      |                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1848 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=COC(CN)=C3</chem>   | 1857 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=COC(CN)=C3</chem>   |
| 1849 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=COC(CN)=C3</chem>   | 1858 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=COC(CN)=C3</chem>   |
| 1850 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=COC(CN)=C3</chem>   | 1859 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=COC(CN)=C3</chem>   |
| 1851 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=COC(CN)=C3</chem>   | 1860 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=COC(CN)=C3</chem>   |
| 1852 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=COC(CN)=C3</chem>  | 1861 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=COC(CN)=C3</chem>  |
| 1853 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=COC(CN)=C3</chem> | 1862 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=COC(CN)=C3</chem> |
| 1854 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=COC(CN)=C3</chem> | 1863 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=COC(CN)=C3</chem> |
| 1855 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=COC(CN)=C3</chem> | 1864 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=COC(CN)=C3</chem> |
| 1856 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=COC(CN)=C3</chem> | 1865 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3=COC(CN)=C3</chem> |

FIGURE 3DDD

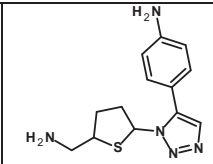
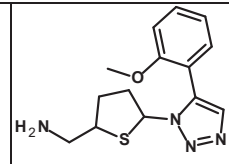
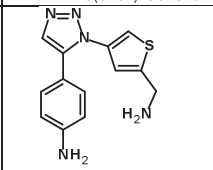
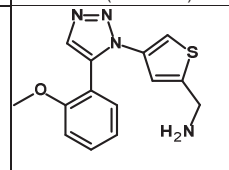
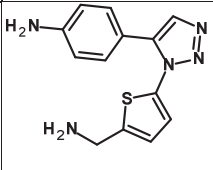
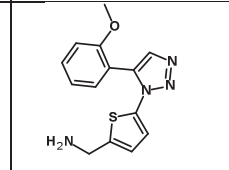
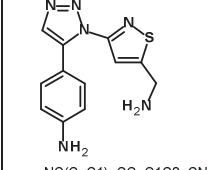
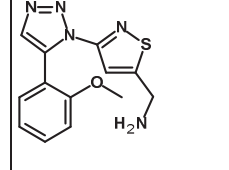
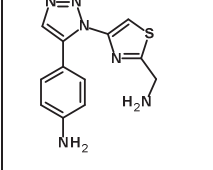
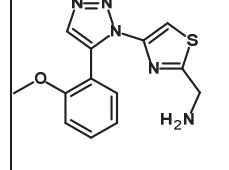
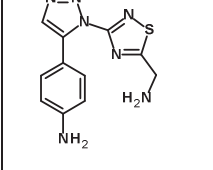
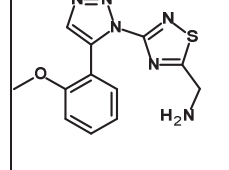
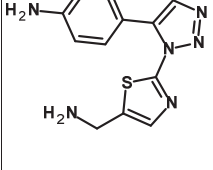
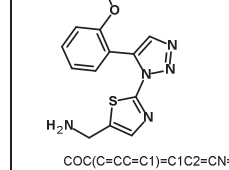
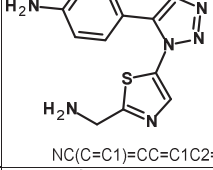
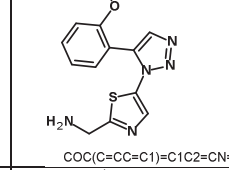
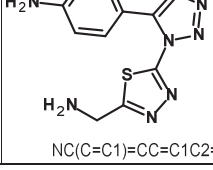
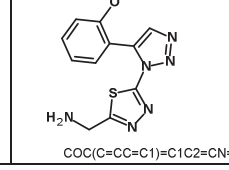
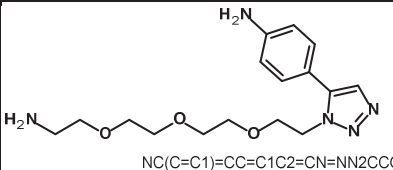
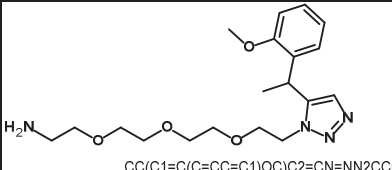
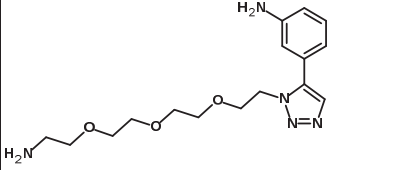
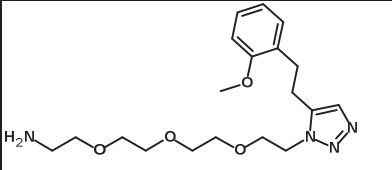
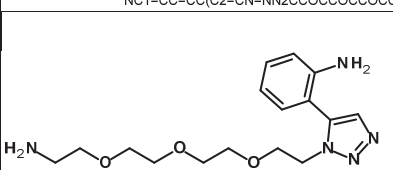
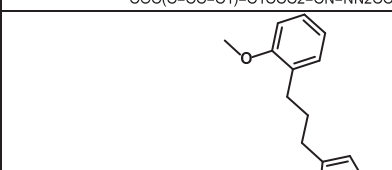
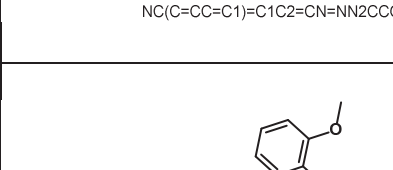
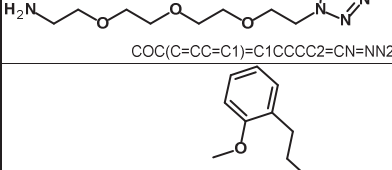
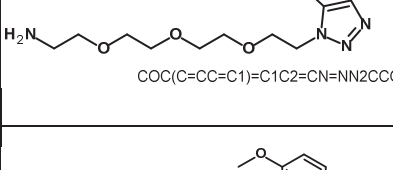
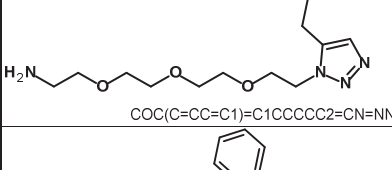
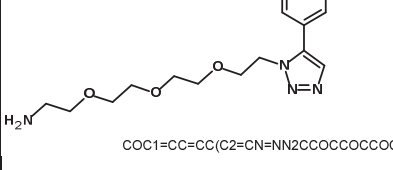
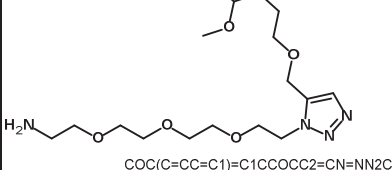
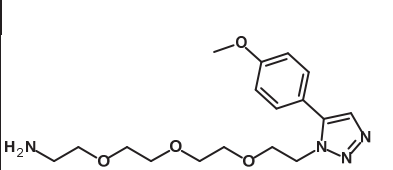
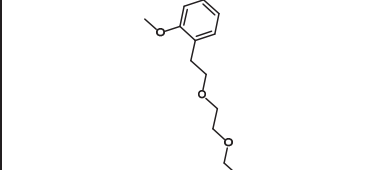
|      |                                                                                                                                           |      |                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1866 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3SC(C3)CN</chem>       | 1875 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3SC(C3)CN</chem>      |
| 1867 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=CSC(CN)=C3</chem>    | 1876 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C3SC(C3)CN</chem>      |
| 1868 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem>   | 1877 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem>   |
| 1869 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C3=NSC(CN)=C3</chem>    | 1878 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem>   |
| 1870 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem>  | 1879 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem>  |
| 1871 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem> | 1880 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem> |
| 1872 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem> | 1881 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem> |
| 1873 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C(S3)=CC=C3CN</chem>  | 1882 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem> |
| 1874 | <br><chem>NC(C=C1)=CC=C1C2=CN=NN2C(S3)=CC=C3CN</chem>  | 1883 | <br><chem>COC(C=CC=C1)=C1C2=CN=NN2C(S3)=CC=C3CN</chem> |

FIGURE 3EEE

|      |  |      |  |
|------|--|------|--|
| 1884 |  | 1893 |  |
| 1885 |  | 1894 |  |
| 1886 |  | 1895 |  |
| 1887 |  | 1896 |  |
| 1888 |  | 1897 |  |
| 1889 |  | 1898 |  |
| 1890 |  | 1899 |  |
| 1891 |  | 1900 |  |
| 1892 |  | 1901 |  |

FIGURE 3FFF

|      |                                                                                                                          |      |                                                                                                                                    |
|------|--------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------|
| 1902 | <br>NC(C=C1)=CC=C1C2=CN=NN2CCOCNCCO     | 1909 | <br>CC(C1=C(C=CC=C1)OC)C2=CN=NN2CCOCNCCO         |
| 1903 | <br>NC1=CC=CC(C2=CN=NN2CCOCNCCO)=C1     | 1910 | <br>COC(C=CC=C1)=C1CCC2=CN=NN2CCOCNCCO           |
| 1904 | <br>NC(C=CC=C1)=C1C2=CN=NN2CCOCNCCO     | 1911 | <br>COC(C=CC=C1)=C1CCCC2=CN=NN2CCOCNCCO          |
| 1905 | <br>COC(C=CC=C1)=C1C2=CN=NN2CCOCNCCO   | 1912 | <br>COC(C=CC=C1)=C1CCCCC2=CN=NN2CCOCNCCO        |
| 1906 | <br>COC1=C(C=CC(C2=CN=NN2CCOCNCCO)=C1 | 1913 | <br>COC(C=CC=C1)=C1CCOCC2=CN=NN2CCOCNCCO       |
| 1907 | <br>COC(C=C1)=CC=C1C2=CN=NN2CCOCNCCO  | 1914 | <br>COC(C=CC=C1)=C1CCOCCOCC2=CN=NN2CCOCNCCO    |
| 1908 | <br>OC(C=C1)=CC=C1C2=CN=NN2CCOCNCCO   | 1915 | <br>COC(C=CC=C1)=C1CCOCCOCCOCC2=CN=NN2CCOCNCCO |

**FIGURE 3GGG**

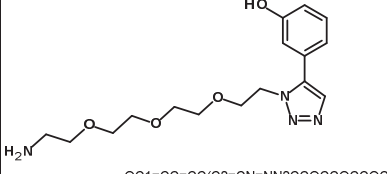
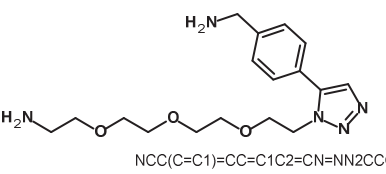
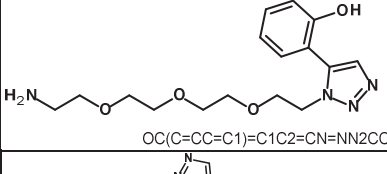
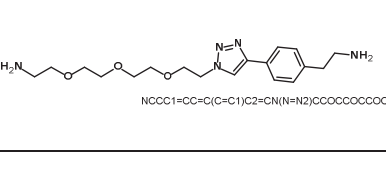
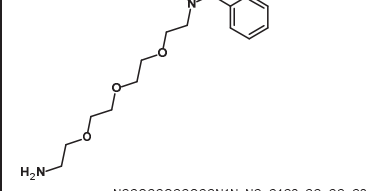
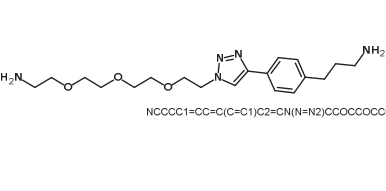
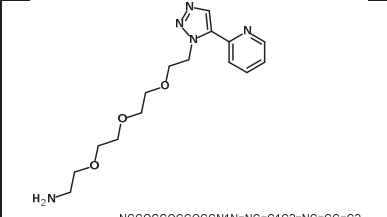
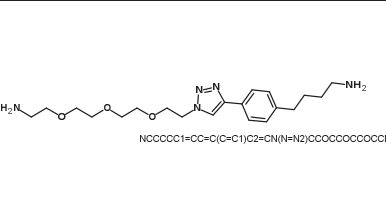
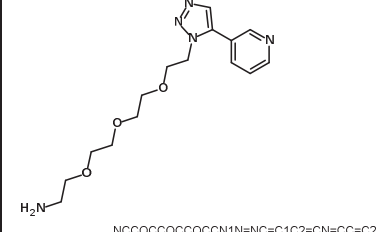
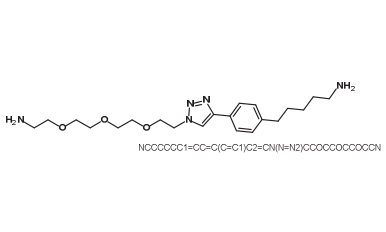
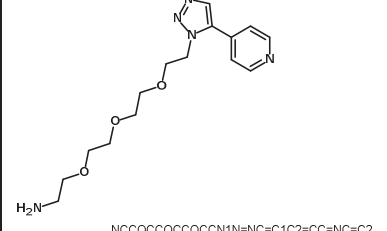
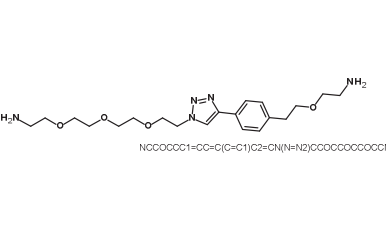
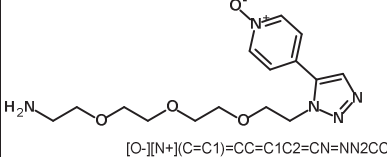
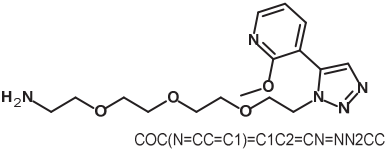
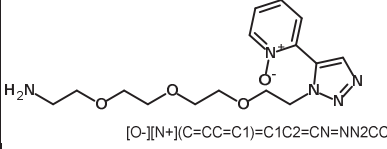
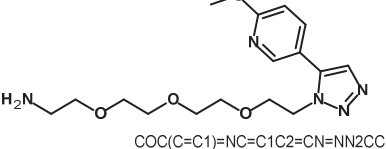
|      |                                                                                                                                               |      |                                                                                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1916 | <br><chem>OC1=CC=CC(C2=CN=NN2CCOCCOCCOCCN)=C1</chem>         | 1924 | <br><chem>NCC(C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCN</chem>            |
| 1917 | <br><chem>OC(C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCN</chem>         | 1925 | <br><chem>NCCCC1=CC=C(C(=C1)C2=CN(N=N2)CCOCCOCCOCCN</chem>       |
| 1918 | <br><chem>NCCOCCOCCOCCCN1N=NC=C1C2=CC=CC=C2</chem>           | 1926 | <br><chem>NCCCC1=CC=C(C(=C1)C2=CN(N=N2)CCOCCOCCOCCN</chem>       |
| 1919 | <br><chem>NCCOCCOCCOCCCN1N=NC=C1C2=NC=CC=C2</chem>          | 1927 | <br><chem>NCCCCC1=CC=C(C(=C1)C2=CN(N=N2)CCOCCOCCOCCN</chem>     |
| 1920 | <br><chem>NCCOCCOCCOCCCN1N=NC=C1C2=CN=CC=C2</chem>         | 1928 | <br><chem>NCCCCC1=CC=C(C(=C1)C2=CN(N=N2)CCOCCOCCOCCN</chem>    |
| 1921 | <br><chem>NCCOCCOCCOCCCN1N=NC=C1C2=CC=NC=C2</chem>         | 1929 | <br><chem>NCCOCCOCC1=CC=C(C(=C1)C2=CN(N=N2)CCOCCOCCOCCN</chem> |
| 1922 | <br><chem>[O-][N+](C=C1)=CC=C1C2=CN=NN2CCOCCOCCOCCN</chem> | 1930 | <br><chem>COC(N=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCN</chem>          |
| 1923 | <br><chem>[O-][N+](C=CC=C1)=C1C2=CN=NN2CCOCCOCCOCCN</chem> | 1931 | <br><chem>COC(C=C1)=NC=C1C2=CN=NN2CCOCCOCCOCCN</chem>          |

FIGURE 3HHH

|      |  |      |  |
|------|--|------|--|
| 1932 |  | 1940 |  |
| 1933 |  | 1941 |  |
| 1934 |  | 1942 |  |
| 1935 |  | 1943 |  |
| 1936 |  | 1944 |  |
| 1937 |  | 1945 |  |
| 1938 |  | 1946 |  |
| 1939 |  | 1947 |  |

FIGURE 3III

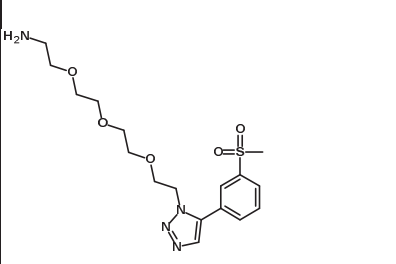
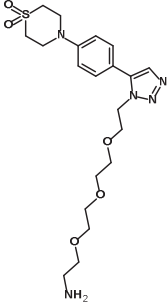
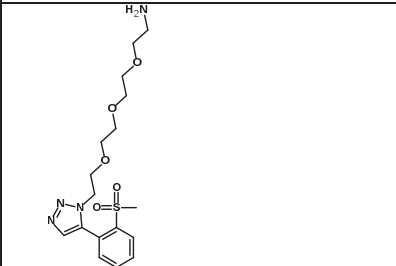
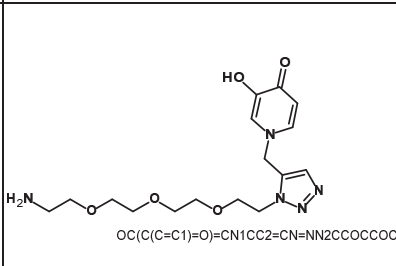
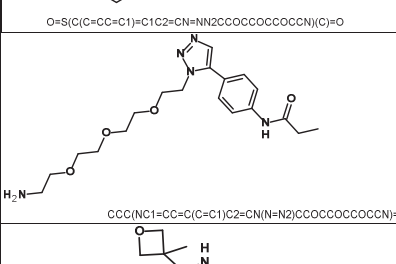
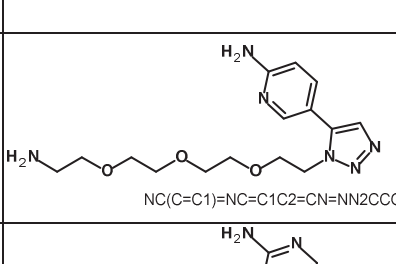
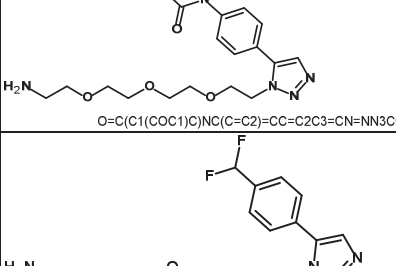
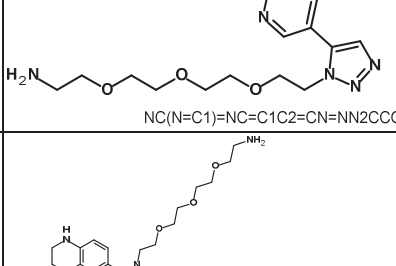
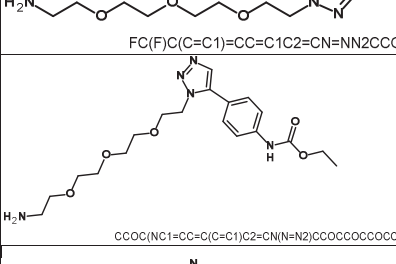
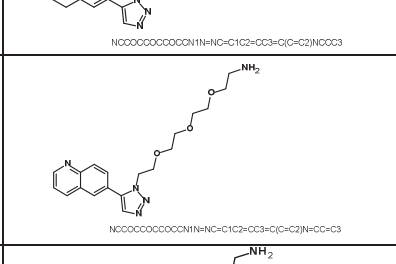
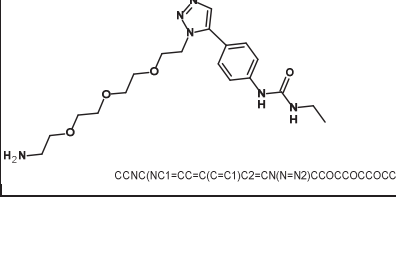
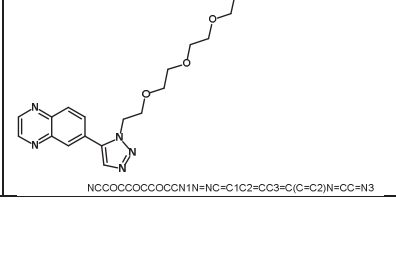
|      |                                                                                                                                               |      |                                                                                                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1948 | <br><chem>O=S(C1=CC=CC(C2=CN=NN2COCOCOCOCN)=C1)(C</chem>     | 1955 | <br><chem>NC(C1=CC=CC(C2=CN=NN2COCOCOCOCN)=C1)(C</chem>    |
| 1949 | <br><chem>O=S(C1=CC=CC(C2=CN=NN2COCOCOCOCN)=C1)(C</chem>     | 1956 | <br><chem>OC(C(C=O)=O)=CN1CC2=CN=NN2COCOCOC</chem>          |
| 1950 | <br><chem>CCC(NC1=CC=CC(C2=CN=NN2COCOCOCOCN)=C1)(C</chem>   | 1957 | <br><chem>NC(C=C1)=NC=C1C2=CN=NN2COCOC</chem>              |
| 1951 | <br><chem>O=C(C1(COC1)C)NC(C=C2)=CC=C2C3=CN=NN3C</chem>    | 1958 | <br><chem>NC(N=C1)=NC=C1C2=CN=NN2COCOC</chem>             |
| 1952 | <br><chem>FC(F)C(C=C1)=CC=C1C2=CN=NN2COCOC</chem>          | 1959 | <br><chem>NCOCOCOCOCOCN1N=NC=C1C2=CC3=C(C=C2)NCOC3</chem> |
| 1953 | <br><chem>CCOC(NC1=CC=CC(C2=CN=NN2COCOCOCOCN)=C1)(C</chem> | 1960 | <br><chem>NCOCOCOCOCOCN1N=NC=C1C2=CC3=C(C=C2)NCOC3</chem> |
| 1954 | <br><chem>CCNC(NC1=CC=CC(C2=CN=NN2COCOCOCOCN)=C1)(C</chem> | 1961 | <br><chem>NCOCOCOCOCOCN1N=NC=C1C2=CC3=C(C=C2)NCOC3</chem> |

FIGURE 3JJJ

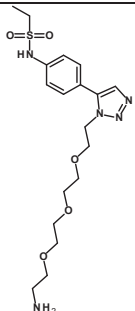
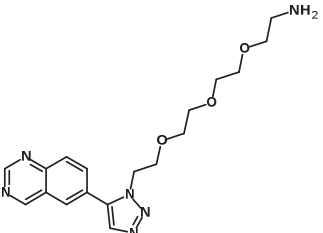
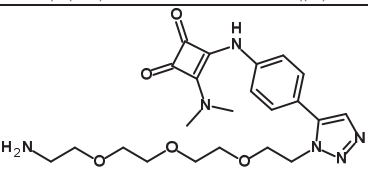
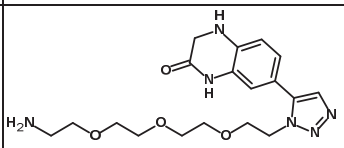
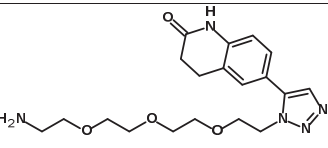
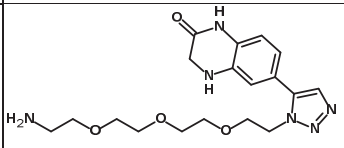
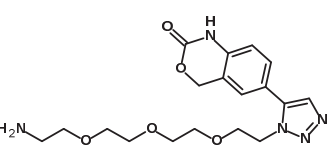
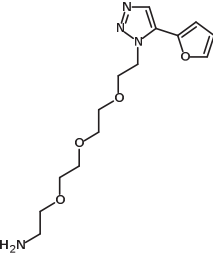
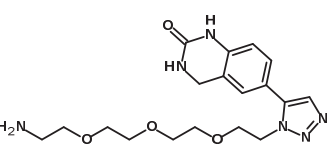
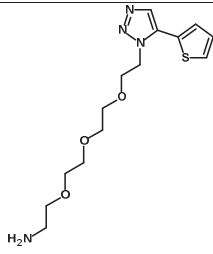
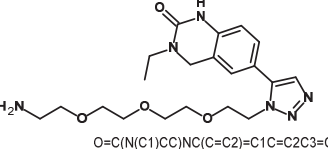
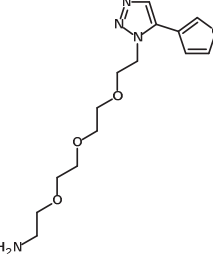
|      |                                                                                                                                              |      |                                                                                                                                         |
|------|----------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1962 | <br><chem>O=S(NC(C1)=CC=C1C2=CN=NN2COCOCOCOCN)(CC)=O</chem> | 1968 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CC3=C(C=C2)N</chem> |
| 1963 | <br><chem>H2NCCOCCOCCOCCOCCOCCN1N=NN1</chem>                | 1969 | <br><chem>O=C(N1)CNC(C=C2)=C1C=C2C3=CN=NN3CC</chem>   |
| 1964 | <br><chem>O=C(CC1)NC(C=C2)=C1C=C2C3=CN=NN3CC</chem>         | 1970 | <br><chem>O=C(CN1)NC(C=C2)=C1C=C2C3=CN=NN3CC</chem>   |
| 1965 | <br><chem>O=C(OC1)NC(C=C2)=C1C=C2C3=CN=NN3CC</chem>        | 1971 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CC=CO2</chem>      |
| 1966 | <br><chem>O=C(NC1)NC(C=C2)=C1C=C2C3=CN=NN3CC</chem>       | 1972 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CC=CS2</chem>     |
| 1967 | <br><chem>O=C(N(C1)CC)NC(C=C2)=C1C=C2C3=CN=NN3CC</chem>   | 1973 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=COC=C2</chem>     |

FIGURE 3KKK

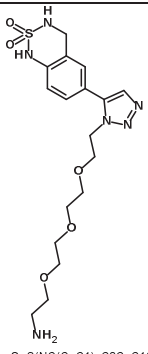
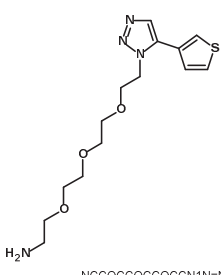
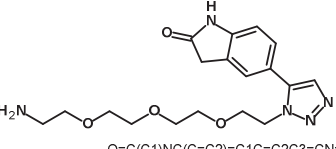
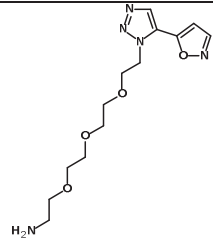
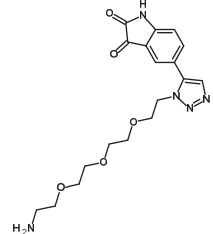
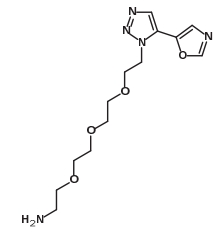
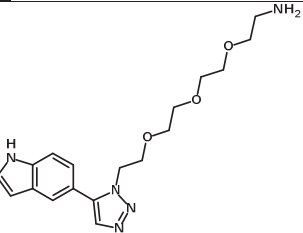
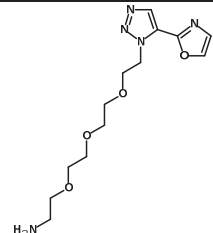
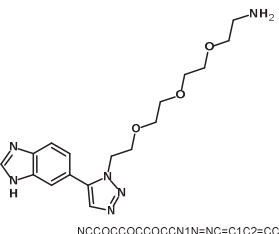
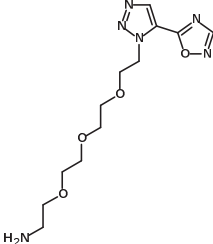
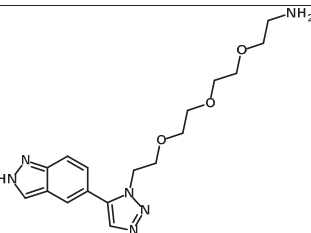
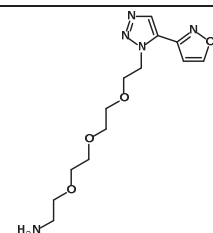
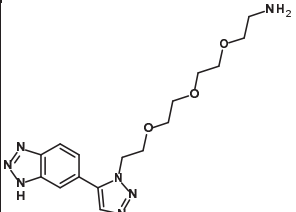
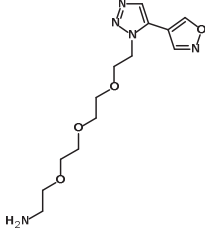
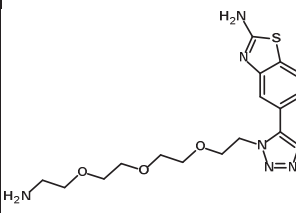
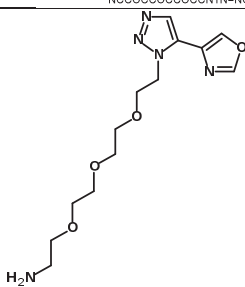
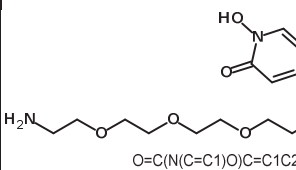
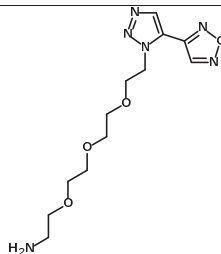
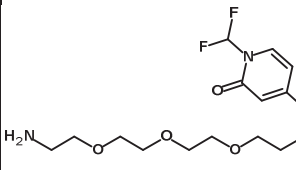
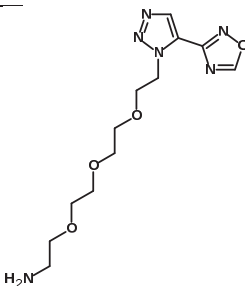
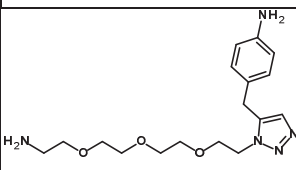
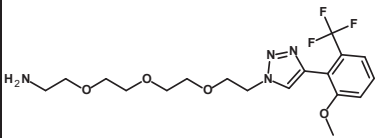
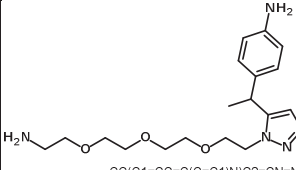
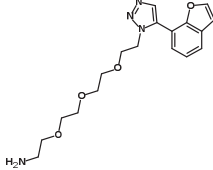
|      |                                                                                                                                                        |      |                                                                                                                                     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1974 | <br><chem>O=S(=O)(NC(C=C1)=C2C=C1C3=CN=NN3COCOCOCOCOCN)(NC2)=O</chem> | 1980 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CSC=C2</chem>   |
| 1975 | <br><chem>O=C(C1)NC(C=C2)=C1C=C2C3=CN=NN3CC</chem>                    | 1981 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CC=NO2</chem>   |
| 1976 | <br><chem>O=C1C(C=C2C3=CN=NN3COCOCOCOCOCN)=C(C=C2)NC1=O</chem>       | 1982 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CN=CO2</chem>  |
| 1977 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CC3=C(C=C2)NC</chem>              | 1983 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=NC=CO2</chem> |
| 1978 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CC3=C(C=C2)NC=N3</chem>           | 1984 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=NC=NO2</chem> |
| 1979 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CC3=C(C=C2)N</chem>               | 1985 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=NOC=C2</chem> |

FIGURE 3LLL

|      |                                                                                                                                            |      |                                                                                                                                               |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1986 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CC3=C(C=C2)NN=N3</chem> | 1992 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=CON=C2</chem>             |
| 1987 | <br><chem>NC1=NC2=C(S1)C=CC(C3=CN=NN3COCOCOCOC)N2</chem>  | 1993 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=COC=N2</chem>             |
| 1988 | <br><chem>O=C(N(C=C1O)C=C1C2=CN=NN2CCC)N1</chem>          | 1994 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=NON=C2</chem>            |
| 1989 | <br><chem>O=C(N(C=C1)C(F)F)C=C1C2=CN=NN2CCC</chem>      | 1995 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=NOC=N2</chem>           |
| 1990 | <br><chem>NC(C=C1)=CC=C1CC2=CN=NN2COCOCOCOCN</chem>     | 1996 | <br><chem>COC1=C(C(C(F)F)F)F=CC=C1C2=CN(N=N2)C</chem>     |
| 1991 | <br><chem>CC(C1=CC=C(C=C1)N)C2=CN=NN2COCOCOCOC</chem>   | 1997 | <br><chem>NCCOCCOCCOCCN1N=NC=C1C2=C3C(C=CC3)=CC=C2</chem> |

**FIGURE 3MMM**

|      |                                                   |      |                                                  |
|------|---------------------------------------------------|------|--------------------------------------------------|
| 1998 | <br>NC(C=C1)=CC=C1CCC2=CN=NN2CCOCCO               | 2004 | <br>NCCOCCOCCOCCCN1N=NC=C1C2=C3C(N=CO)C=CC3=C2N1 |
| 1999 | <br>NC(C=C1)=CC=C1CCC2=CN=NN2CCOCCOCCO            | 2005 | <br>NCCOCCOCCOCCCN1N=NC=C1C2=C3C(N=CN3)=CC=C2N1  |
| 2000 | <br>NC(C=C1)=CC=C1CCCC2=CN=NN2CCOCCOCCOCCCN       | 2006 | <br>NCCOCCOCCOCCCN1N=NC=C1C2=CC=CC=CC2N1         |
| 2001 | <br>NC(C=C1)=CC=C1CCOCC2=CN=NN2CCOCCO             | 2007 | <br>NCCOCCOCCOCCCN1N=NC=C1C2=CC=CC3=CC=CC3=N2C1  |
| 2002 | <br>NC(C=C1)=CC=C1CCOCCOCC2=CN=NN2CCOCCOCCOCCO    | 2008 | <br>NCCOCCOCCOCCCN1N=NC=C1C2=CC=CC3=CC=CC3=N2C1  |
| 2003 | <br>NC(C=C1)=CC=C1CCOCCOCCOCC2=CN=NN2CCOCCOCCOCCO | 2009 | <br>NCCOCCOCCOCCCN1N=NC=C1C2=CC=CC3=CC=CC3=N2C1  |

**FIGURE 3NNN**

|      |                                                                                                                                    |      |                                                                                                                                         |
|------|------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 2010 | <br><chem>COC(C=CC=C1)=C1CC2=CN=NN2CCOCCCN</chem> | 2011 | <br><chem>NCCCOCCOCCOCCN1C=NC2=C1C=CC3=C2N=CN3</chem> |
|------|------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------|

FIGURE 4A

|      |  |      |  |
|------|--|------|--|
| 2012 |  | 2020 |  |
| 2013 |  | 2021 |  |
| 2014 |  | 2022 |  |
| 2015 |  | 2023 |  |
| 2016 |  | 2024 |  |
| 2017 |  | 2025 |  |
| 2018 |  | 2026 |  |
| 2019 |  | 2027 |  |

FIGURE 4B

|      |  |      |  |
|------|--|------|--|
| 2028 |  | 2036 |  |
| 2029 |  | 2037 |  |
| 2030 |  | 2038 |  |
| 2031 |  | 2039 |  |
| 2032 |  | 2040 |  |
| 2033 |  | 2041 |  |
| 2034 |  | 2042 |  |
| 2035 |  | 2043 |  |

FIGURE 4C

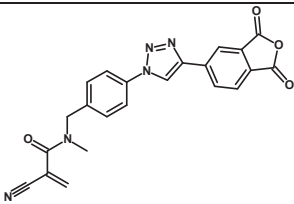
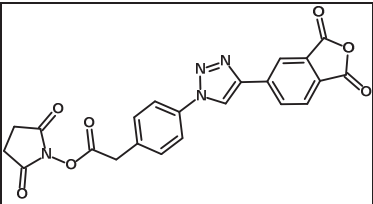
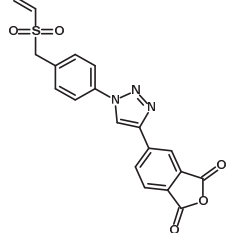
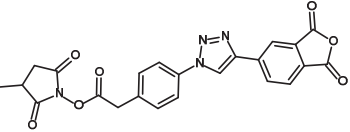
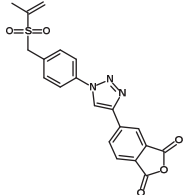
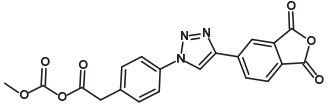
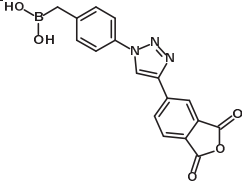
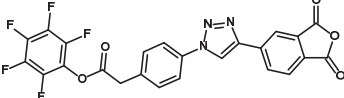
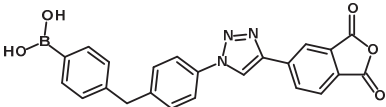
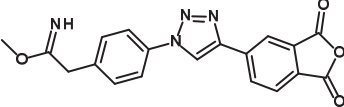
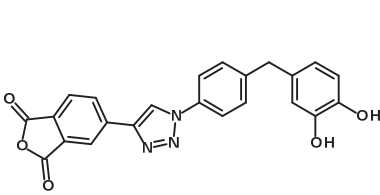
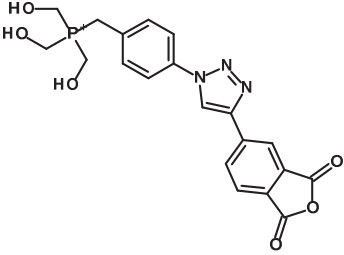
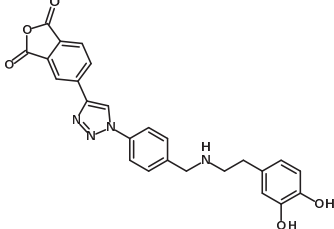
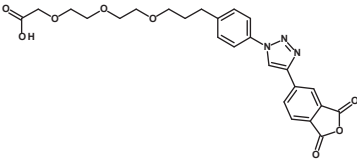
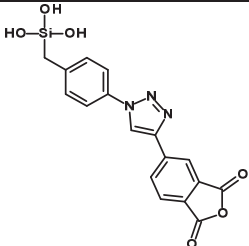
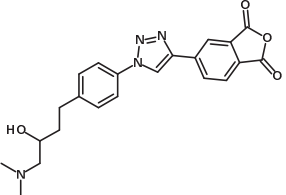
|      |                                                                                     |      |                                                                                      |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 2044 |    | 2052 |    |
| 2045 |    | 2053 |    |
| 2046 |    | 2054 |    |
| 2047 |   | 2055 |    |
| 2048 |  | 2056 |  |
| 2049 |  | 2057 |  |
| 2050 |  | 2058 |  |
| 2051 |  | 2059 |  |

FIGURE 4D

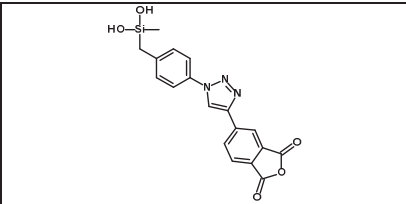
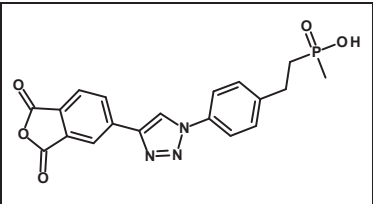
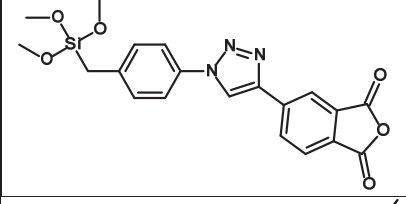
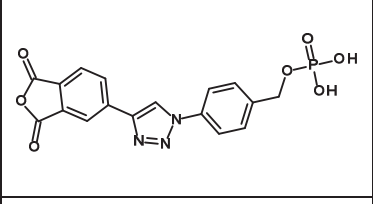
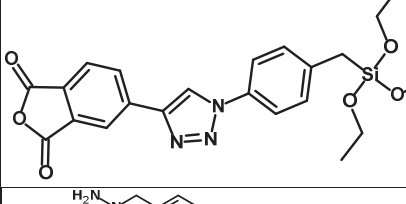
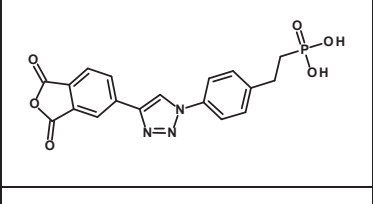
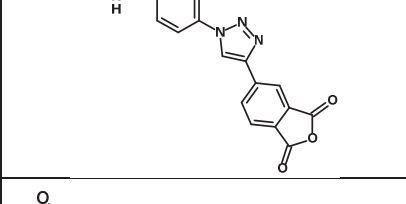
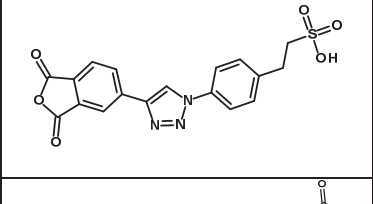
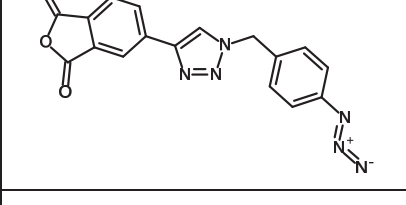
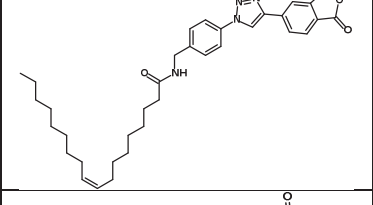
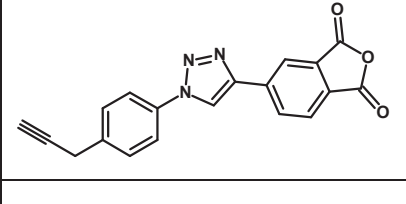
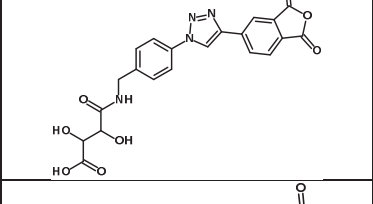
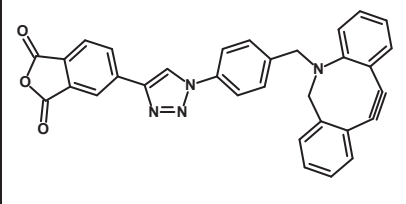
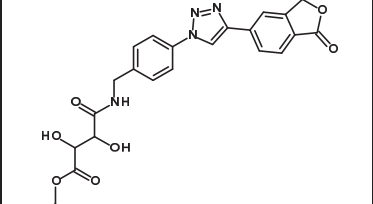
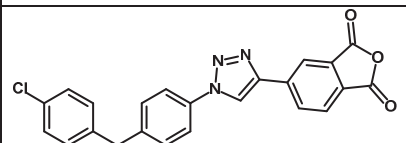
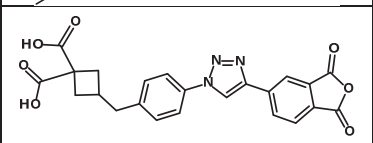
|      |                                                                                     |      |                                                                                      |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 2060 |    | 2068 |    |
| 2061 |    | 2069 |    |
| 2062 |    | 2070 |    |
| 2063 |   | 2071 |   |
| 2064 |  | 2072 |  |
| 2065 |  | 2073 |  |
| 2066 |  | 2074 |  |
| 2067 |  | 2075 |  |

FIGURE 4E

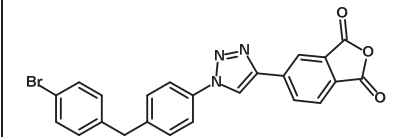
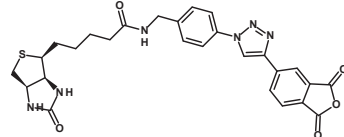
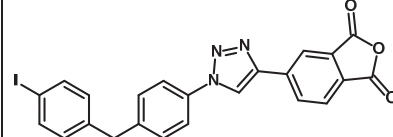
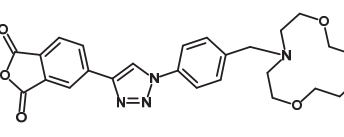
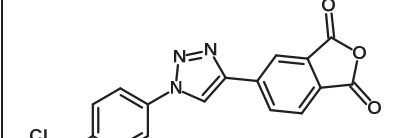
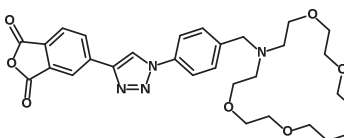
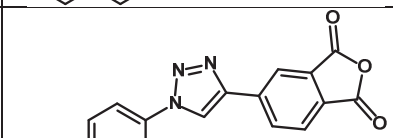
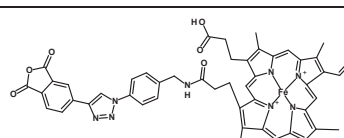
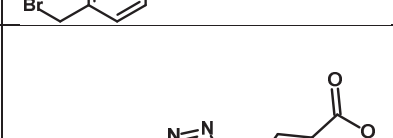
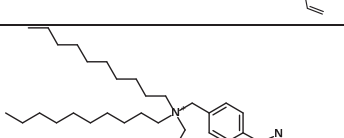
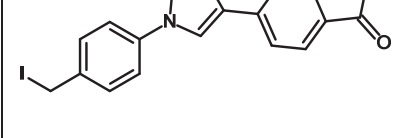
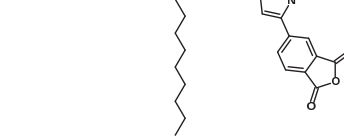
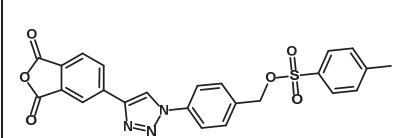
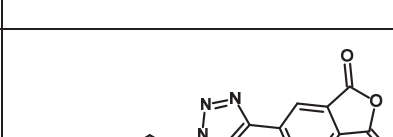
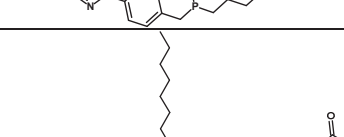
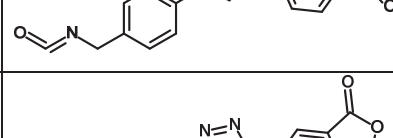
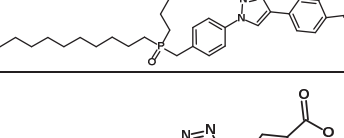
|      |                                                                                     |      |                                                                                      |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 2076 |    | 2085 |    |
| 2077 |    | 2086 |    |
| 2078 |    | 2087 |    |
| 2079 |    | 2088 |    |
| 2080 |    | 2089 |    |
| 2081 |   | 2090 |   |
| 2082 |  | 2091 |  |
| 2083 |  | 2092 |  |
| 2084 |  | 2093 |  |

FIGURE 4F

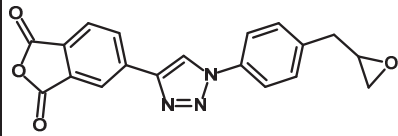
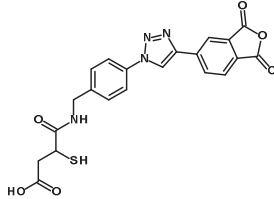
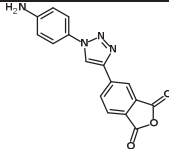
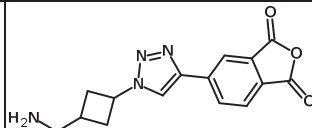
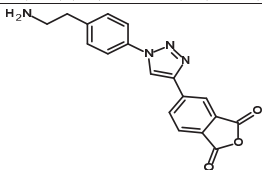
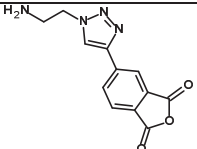
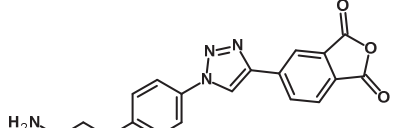
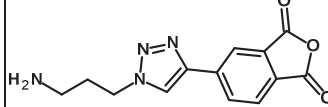
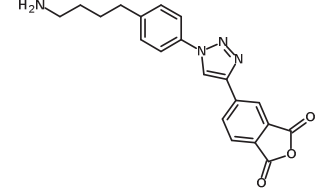
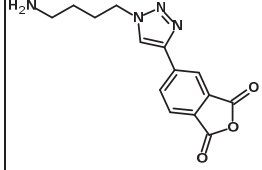
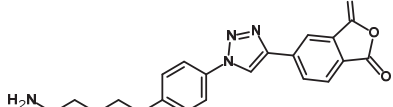
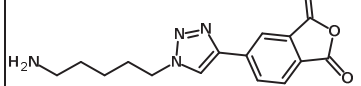
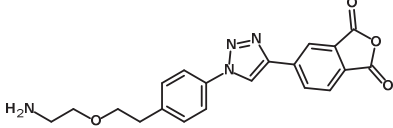
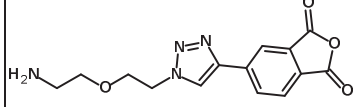
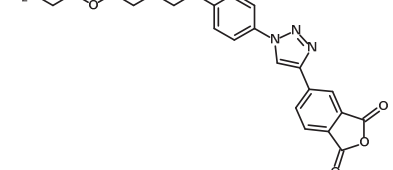
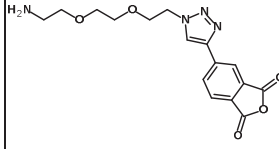
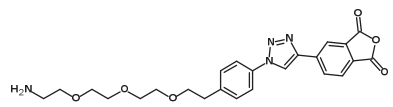
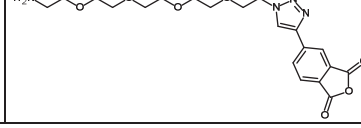
|      |                                                                                                                                                     |      |                                                                                                                                                |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 2094 |                                                                    | 2103 |                                                              |
| 2095 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C4=CC=C(C=C4)N</chem> | 2104 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)CCN</chem>      |
| 2096 |                                                                    | 2105 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)CCN</chem>      |
| 2097 |                                                                    | 2106 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=</chem>                 |
| 2098 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)CC</chem>            | 2107 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)CC</chem>      |
| 2099 |                                                                  | 2108 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=C</chem>              |
| 2100 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=C</chem>                    | 2109 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=C</chem>              |
| 2101 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)CCOCCO</chem>       | 2110 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)CCOCCO</chem> |
| 2102 |                                                                  | 2111 |                                                            |

FIGURE 4G

|      |  |      |                                                       |
|------|--|------|-------------------------------------------------------|
| 2112 |  | 2121 |                                                       |
| 2113 |  | 2122 |                                                       |
| 2114 |  | 2123 |                                                       |
| 2115 |  | 2124 |                                                       |
| 2116 |  | 2125 |                                                       |
| 2117 |  | 2126 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N)C3</chem> |
| 2118 |  | 2127 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N)C3</chem> |
| 2119 |  | 2128 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N)C3</chem> |
| 2120 |  | 2129 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N)C3</chem> |

FIGURE 4H

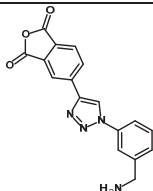
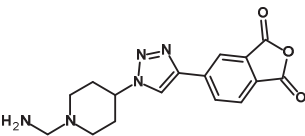
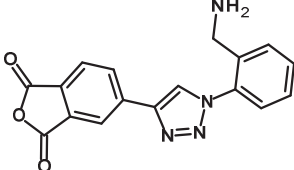
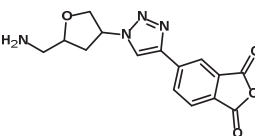
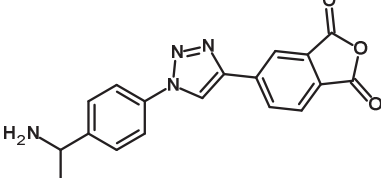
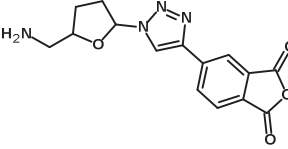
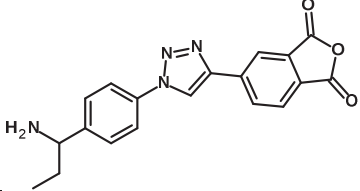
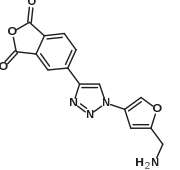
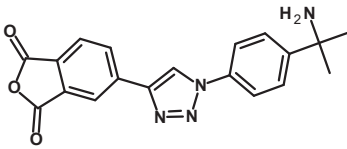
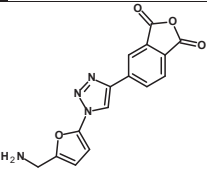
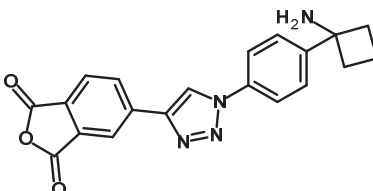
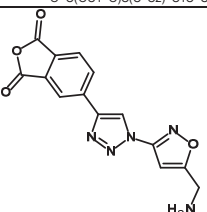
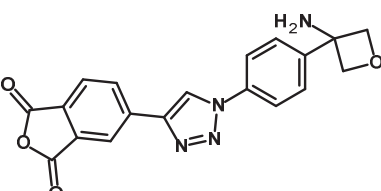
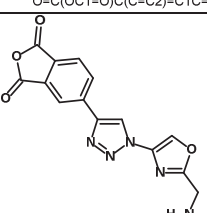
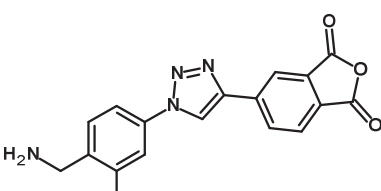
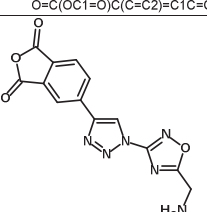
|      |                                                                                     |      |                                                                                                                                                     |
|------|-------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2130 |    | 2138 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N</chem>                |
| 2131 |    | 2139 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C4C</chem>           |
| 2132 |    | 2140 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N</chem>                |
| 2133 |    | 2141 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C4=COC(CN)=C4</chem> |
| 2134 |   | 2142 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C(O4)=CC=C4C</chem> |
| 2135 |  | 2143 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C4=NOC(C</chem>    |
| 2136 |  | 2144 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C4=COC(C</chem>    |
| 2137 |  | 2145 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C4=NOC(CN</chem>   |

FIGURE 4I

|      |  |      |  |
|------|--|------|--|
| 2146 |  | 2154 |  |
| 2147 |  | 2155 |  |
| 2148 |  | 2156 |  |
| 2149 |  | 2157 |  |
| 2150 |  | 2158 |  |
| 2151 |  | 2159 |  |
| 2152 |  | 2160 |  |
| 2153 |  | 2166 |  |

FIGURE 4J

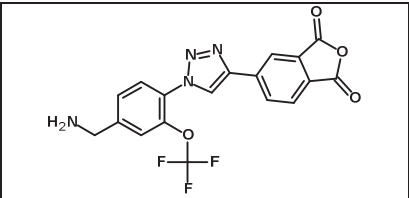
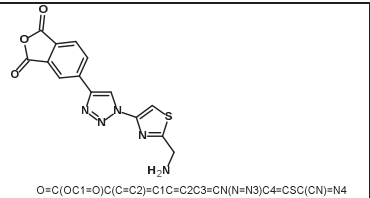
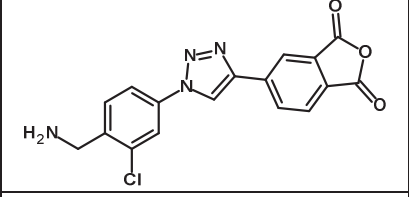
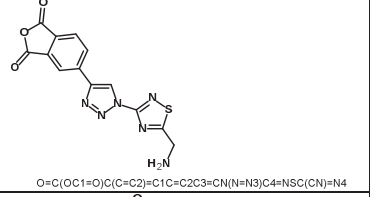
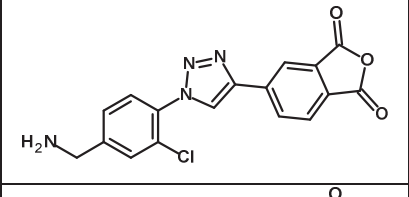
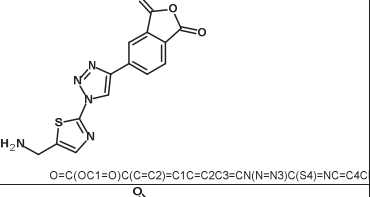
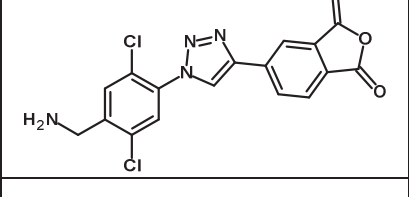
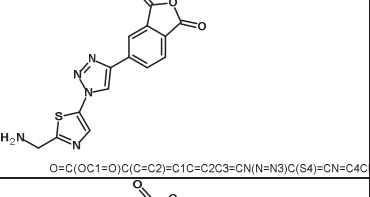
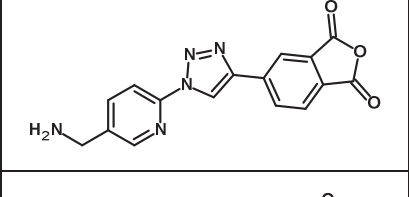
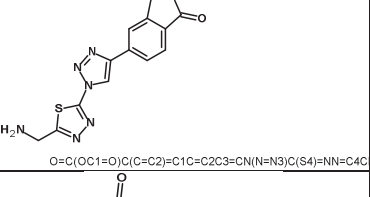
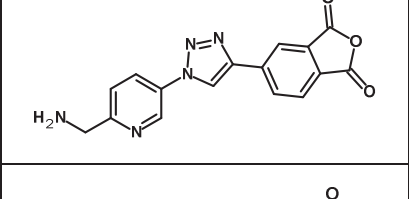
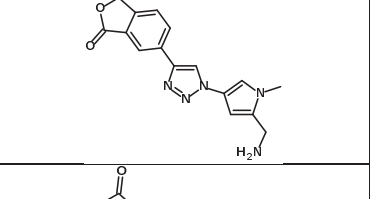
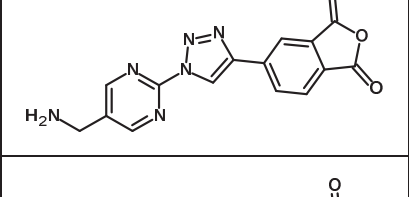
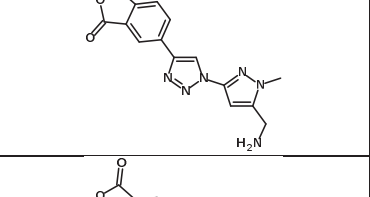
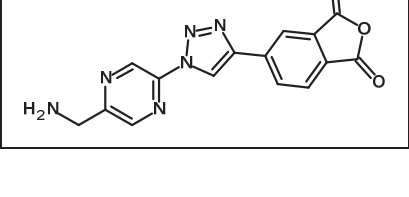
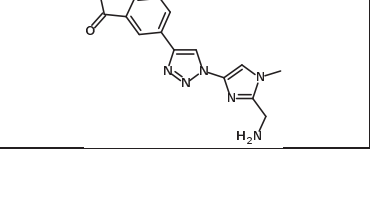
|      |                                                                                     |      |                                                                                                                                                      |
|------|-------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2167 |    | 2175 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C4=CSC(CN)=N4</chem>  |
| 2168 |    | 2176 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C4=NSC(CN)=N4</chem>  |
| 2169 |    | 2177 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C(S4)=NC=C4C</chem>   |
| 2170 |   | 2178 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C(S4)=CN=C4C</chem>  |
| 2171 |  | 2179 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=N3)C(S4)=NN=C4C</chem> |
| 2172 |  | 2180 |                                                                  |
| 2173 |  | 2181 |                                                                  |
| 2174 |  | 2182 |                                                                  |

FIGURE 4K

|      |                                                                  |      |                                                                  |
|------|------------------------------------------------------------------|------|------------------------------------------------------------------|
| 2183 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=3)C(S4)=CC=C4CN</chem> | 2191 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=3)C(N4C)=CC=C4</chem>  |
| 2184 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=3)C4=CC(CN)=C4</chem>  | 2192 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=3)C(N4C)=CC=C4</chem>  |
| 2185 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=3)C4=CC(CN)=C4</chem>  | 2193 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=3)C(N4C)=CC=C4</chem>  |
| 2186 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=3)C4=CC(CN)=C4</chem>  | 2194 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=3)C(N4C)=CC=C4</chem>  |
| 2187 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=3)C4=CC(CN)=C4</chem>  | 2195 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN(N=3)C(N4C)=CC=C4</chem>  |
| 2188 | <br><chem>CCNC(C1=CC=CC(C2=CN=NN2C3=CC=C(C(C=3)CN)=C3)=C1</chem> | 2196 | <br><chem>CCNC(C1=CC=CC(C2=CN=NN2C3=CC=C(C(C=3)CN)=C3)=C1</chem> |
| 2189 | <br><chem>CCNC(C1=CC=CC(C2=CN=NN2C3=CC=C(C(C=3)CN)=C3)=C1</chem> | 2197 | <br><chem>CCNC(C1=CC=CC(C2=CN=NN2C3=CC=C(C(C=3)CN)=C3)=C1</chem> |
| 2190 | <br><chem>CCNC(C1=CC=CC(C2=CN=NN2C3=CC=C(C(C=3)CN)=C3)=C1</chem> | 2198 | <br><chem>CCNC(C1=CC=CC(C2=CN=NN2C3=CC=C(C(C=3)CN)=C3)=C1</chem> |

FIGURE 4L

|      |  |      |  |
|------|--|------|--|
| 2199 |  | 2207 |  |
| 2200 |  | 2208 |  |
| 2201 |  | 2209 |  |
| 2202 |  | 2210 |  |
| 2203 |  | 2211 |  |
| 2204 |  | 2212 |  |
| 2205 |  | 2213 |  |
| 2206 |  | 2214 |  |

FIGURE 4M

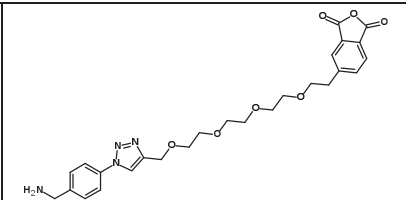
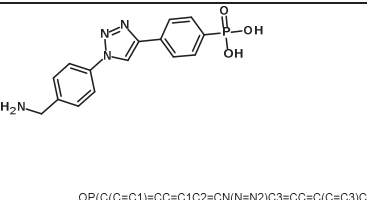
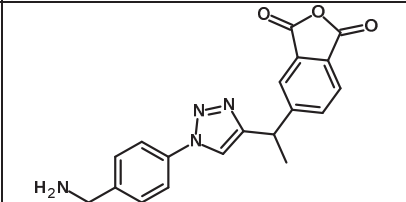
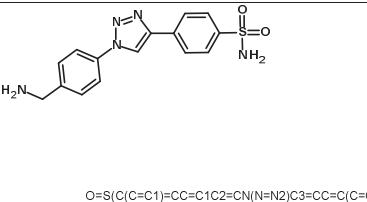
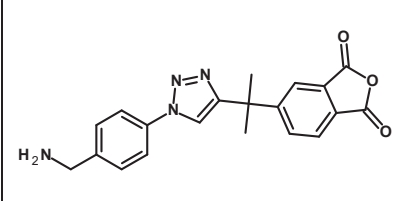
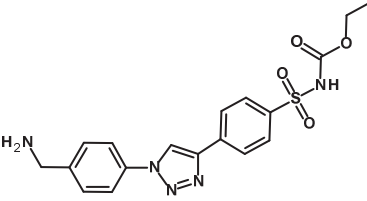
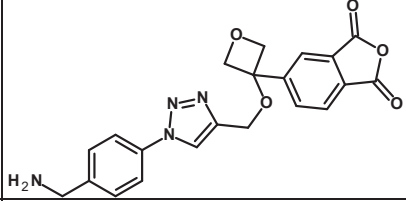
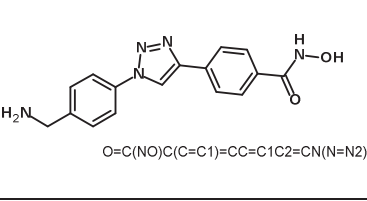
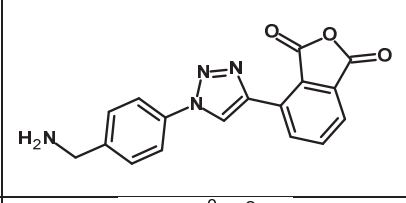
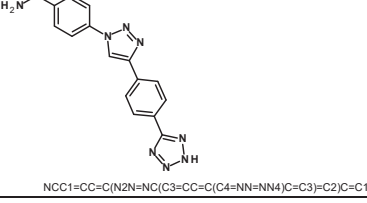
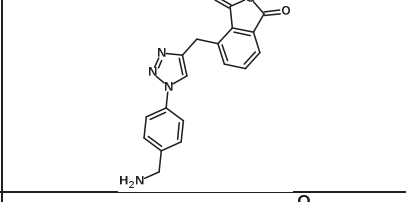
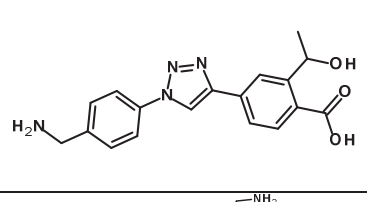
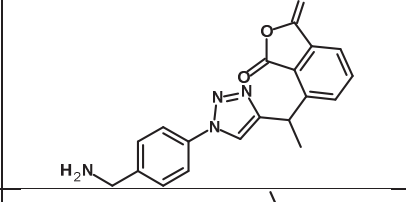
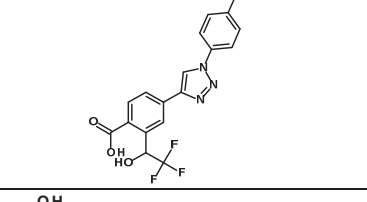
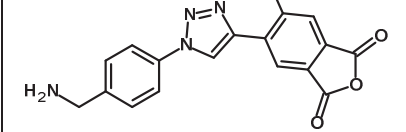
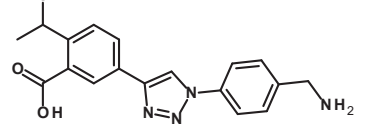
|      |                                                                                     |      |                                                                                                                                                        |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2215 |    | 2223 | <br><chem>OP(C(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)C(=O)O</chem>      |
| 2216 |    | 2224 | <br><chem>O=S(C(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)C(=O)N</chem>     |
| 2217 |    | 2225 |                                                                      |
| 2218 |   | 2226 | <br><chem>O=C(NO)C(C=C1)=CC=C1C2=CN(N=N2)C3=CC=C(C=C3)C(=O)N</chem> |
| 2219 |  | 2227 | <br><chem>NCC1=CC=C(N2N=NC(C3=CC=C(C4=NN=NN4)C=C3)=C2)C=C1</chem>  |
| 2220 |  | 2228 |                                                                    |
| 2221 |  | 2229 |                                                                    |
| 2222 |  | 2230 |                                                                    |

FIGURE 4N

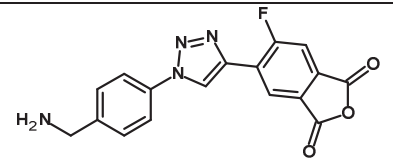
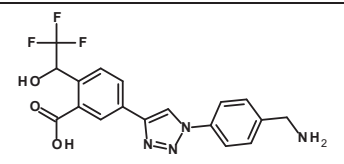
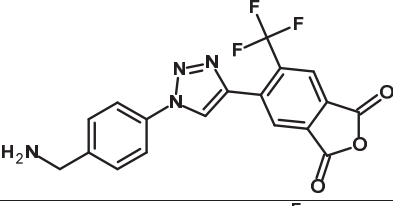
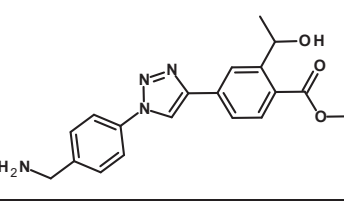
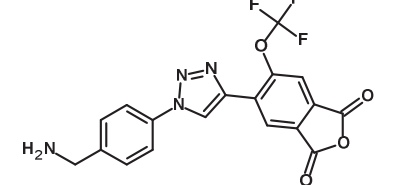
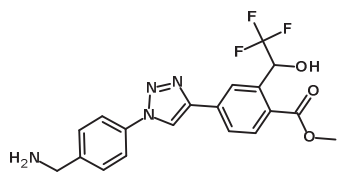
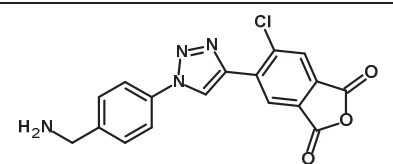
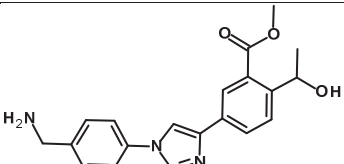
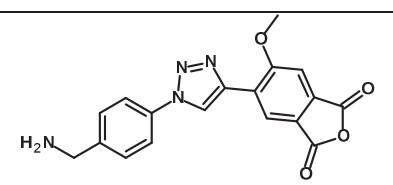
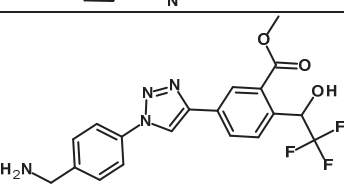
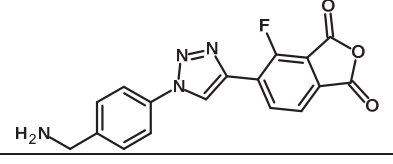
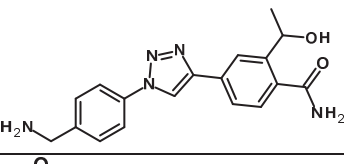
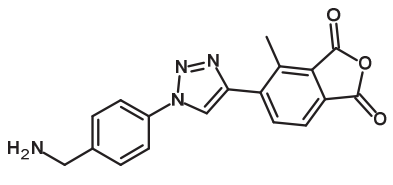
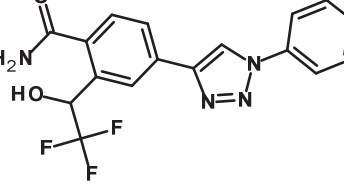
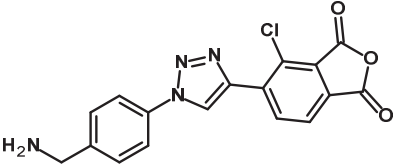
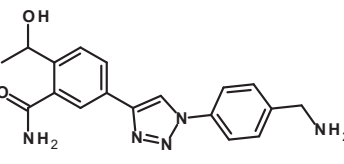
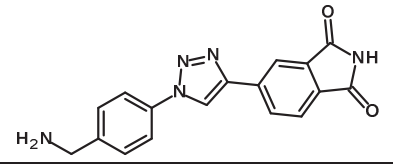
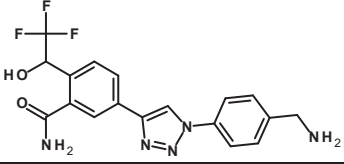
|      |                                                                                     |      |                                                                                      |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 2231 |    | 2240 |    |
| 2232 |    | 2241 |    |
| 2233 |    | 2242 |    |
| 2234 |    | 2243 |    |
| 2235 |   | 2244 |   |
| 2236 |  | 2245 |  |
| 2237 |  | 2246 |  |
| 2238 |  | 2247 |  |
| 2239 |  | 2248 |  |

FIGURE 40

|      |  |      |  |
|------|--|------|--|
| 2249 |  | 2258 |  |
| 2250 |  | 2259 |  |
| 2251 |  | 2260 |  |
| 2252 |  | 2261 |  |
| 2253 |  | 2262 |  |
| 2254 |  | 2263 |  |
| 2255 |  | 2264 |  |
| 2256 |  | 2265 |  |
| 2257 |  | 2266 |  |

**FIGURE 4P**

|      |                                                                              |      |  |
|------|------------------------------------------------------------------------------|------|--|
| 2267 | <br><chem>CCOC(=O)C1=CC=C(C=C1C2=CN=NN2C3=CC=C(C=C3)CN)C4=CC=C(C=C4)N</chem> | 2276 |  |
| 2268 | <br><chem>NC(=O)C1=CC=C(C=C1C2=CN=NN2C3=CC=C(C=C3)CN)C4=CC=C(C=C4)N</chem>   | 2277 |  |
| 2269 | <br><chem>CCNC(=O)C1=CC=C(C=C1C2=CN=NN2C3=CC=C(C=C3)CN)C4=CC=C(C=C4)N</chem> | 2278 |  |
| 2270 |                                                                              | 2279 |  |
| 2271 | <br><chem>OC(=O)C1=CC=C(C=C1C2=CN=NN2C3=CC=C(C=C3)CN)C4=CC=C(C=C4)N</chem>   | 2280 |  |
| 2272 | <br><chem>OC(=O)C1=CC=C(C=C1C2=CN=NN2C3=CC=C(C=C3)CN)C4=CC=C(C=C4)N</chem>   | 2281 |  |
| 2273 | <br><chem>CCOC(=O)C1=CC=C(C=C1C2=CN=NN2C3=CC=C(C=C3)CN)C4=CC=C(C=C4)N</chem> | 2282 |  |
| 2274 | <br><chem>NC(=O)C1=CC=C(C=C1C2=CN=NN2C3=CC=C(C=C3)CN)C4=CC=C(C=C4)N</chem>   | 2283 |  |
| 2275 |                                                                              | 2284 |  |

FIGURE 4Q

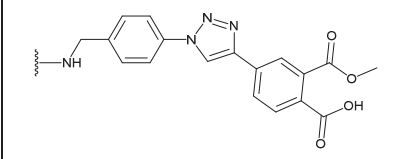
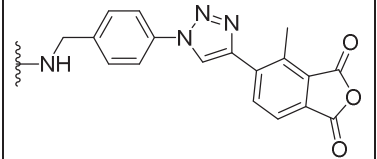
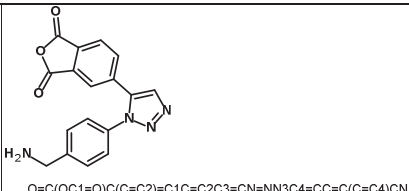
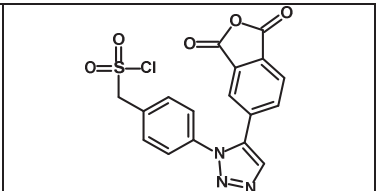
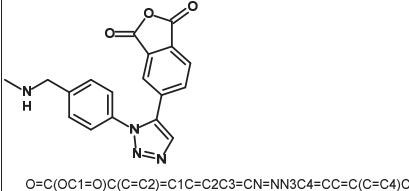
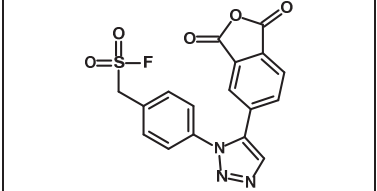
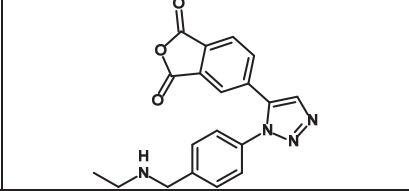
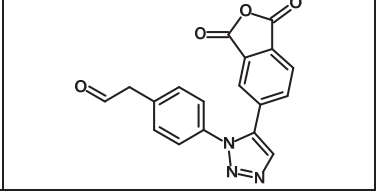
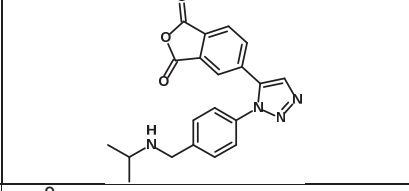
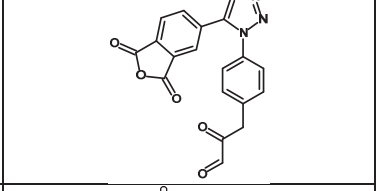
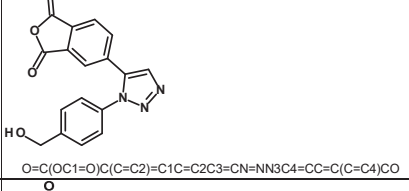
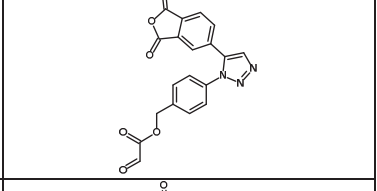
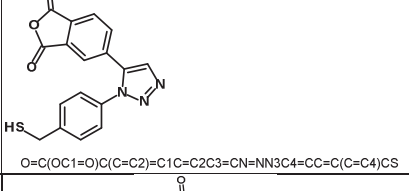
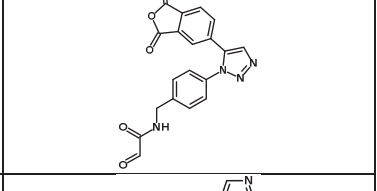
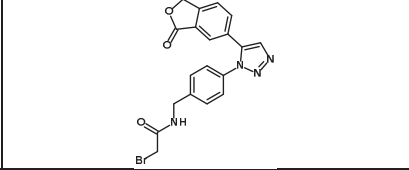
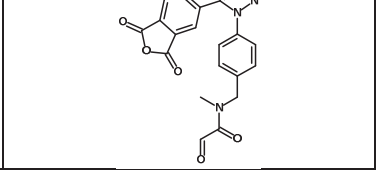
|      |                                                                                                                                                      |      |                                                                                      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 2285 |                                                                     | 2293 |    |
| 2286 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CC=C(C=C4)CN</chem>   | 2294 |    |
| 2287 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CC=C(C=C4)C</chem>    | 2295 |    |
| 2288 |                                                                    | 2296 |   |
| 2289 |                                                                   | 2297 |  |
| 2290 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CC=C(C=C4)CO</chem> | 2298 |  |
| 2291 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CC=C(C=C4)CS</chem> | 2299 |  |
| 2292 |                                                                   | 2300 |  |

FIGURE 4R

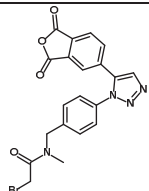
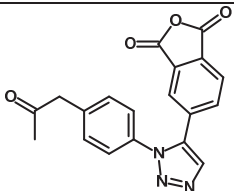
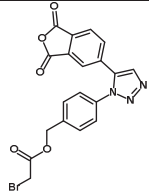
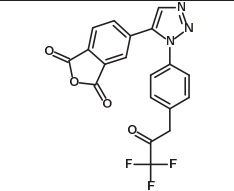
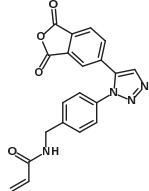
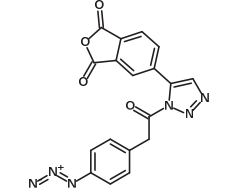
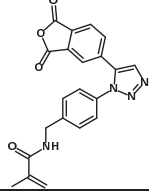
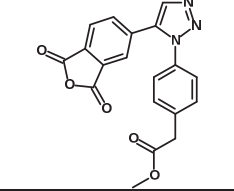
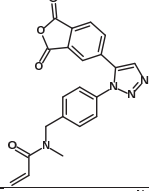
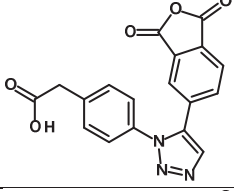
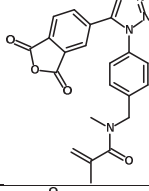
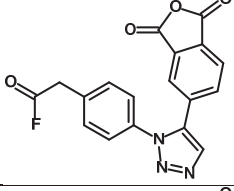
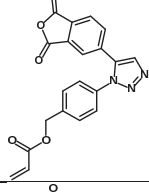
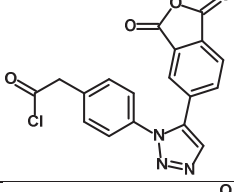
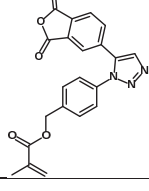
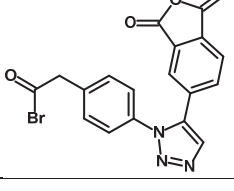
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|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
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| 2302 |    | 2310 |    |
| 2303 |    | 2311 |    |
| 2304 |    | 2312 |    |
| 2305 |   | 2313 |   |
| 2306 |  | 2314 |  |
| 2307 |  | 2315 |  |
| 2308 |  | 2316 |  |

FIGURE 4S

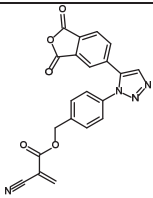
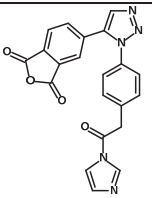
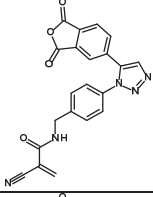
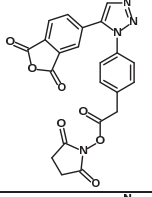
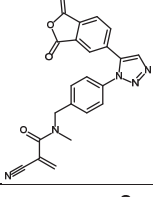
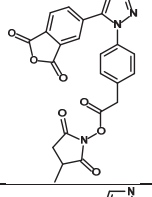
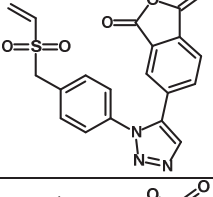
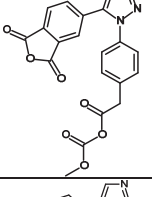
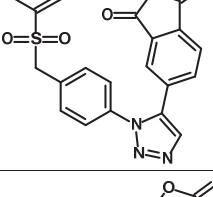
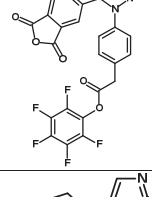
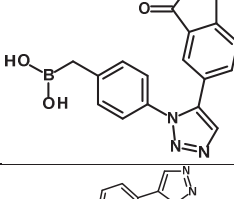
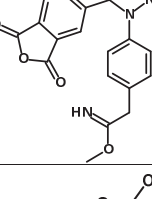
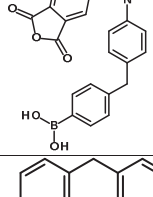
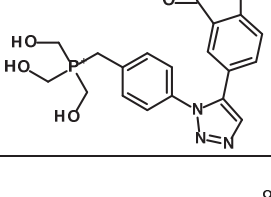
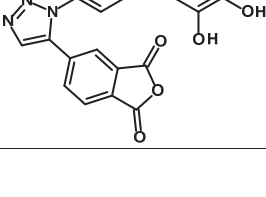
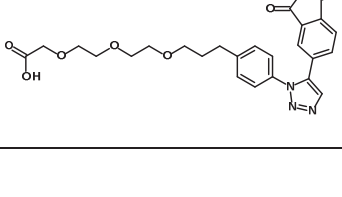
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|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|
| 2317 |    | 2325 |    |
| 2318 |    | 2326 |    |
| 2319 |    | 2327 |    |
| 2320 |   | 2328 |   |
| 2321 |  | 2329 |  |
| 2322 |  | 2330 |  |
| 2323 |  | 2331 |   |
| 2324 |  | 2332 |   |

FIGURE 4T

|      |                                                                  |      |  |
|------|------------------------------------------------------------------|------|--|
| 2333 |                                                                  | 2341 |  |
| 2334 |                                                                  | 2342 |  |
| 2335 |                                                                  | 2343 |  |
| 2336 |                                                                  | 2344 |  |
| 2337 |                                                                  | 2345 |  |
| 2338 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CC=C(C=C4)N</chem> | 2346 |  |
| 2339 |                                                                  | 2347 |  |
| 2340 |                                                                  | 2348 |  |

FIGURE 4U

|      |                                                                        |      |  |
|------|------------------------------------------------------------------------|------|--|
| 2349 |                                                                        | 2356 |  |
| 2350 |                                                                        | 2357 |  |
| 2351 |                                                                        | 2358 |  |
| 2352 |                                                                        | 2359 |  |
| 2353 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CC=C(C(=C4)Cl)Cl</chem>  | 2360 |  |
| 2354 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CC=C(C(=C4)CBr)Br</chem> | 2361 |  |
| 2355 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CC=C(C(=C4)Cl)Cl</chem>  | 2362 |  |

FIGURE 4V

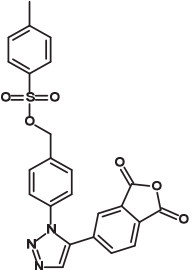
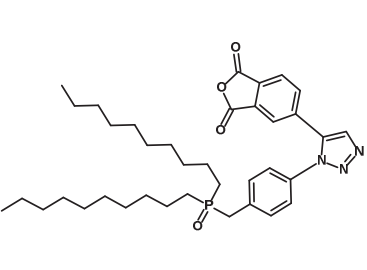
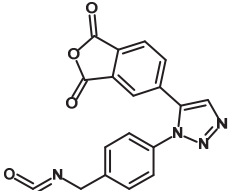
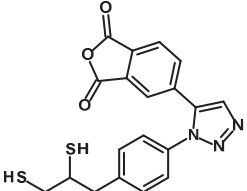
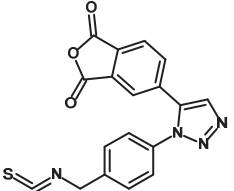
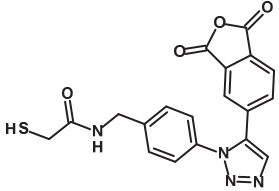
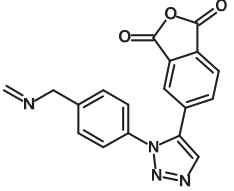
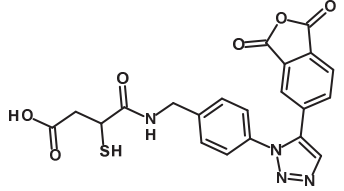
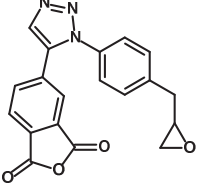
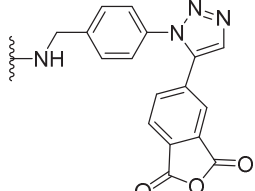
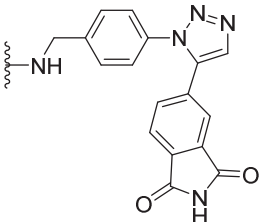
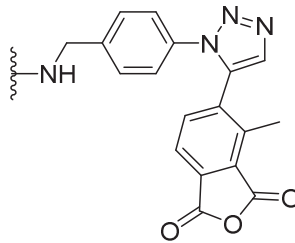
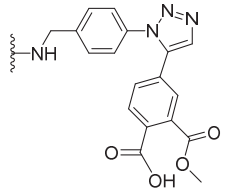
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|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
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| 2364 |    | 2371 |    |
| 2365 |    | 2372 |    |
| 2366 |   | 2373 |   |
| 2367 |  | 2374 |  |
| 2368 |  | 2375 |  |
| 2369 |  |      |                                                                                      |

FIGURE 4W

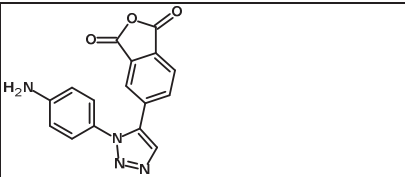
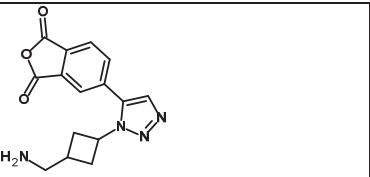
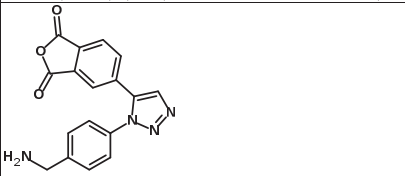
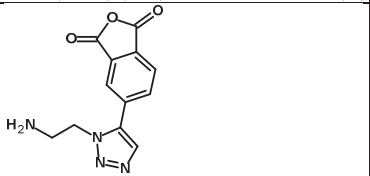
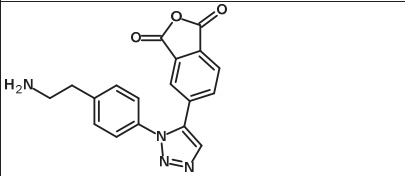
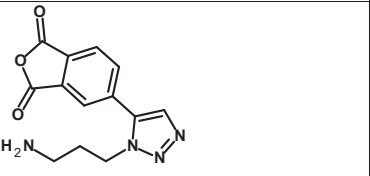
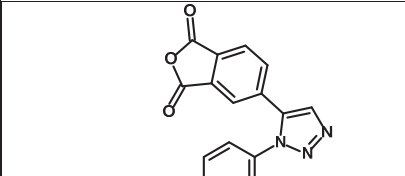
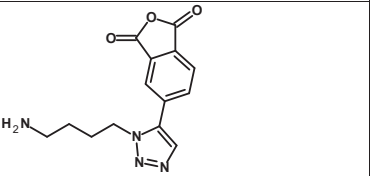
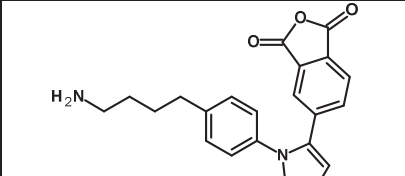
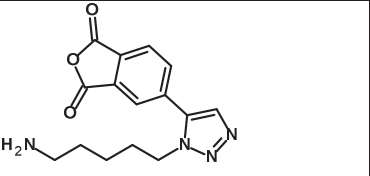
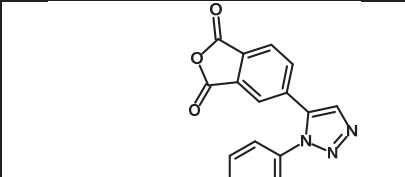
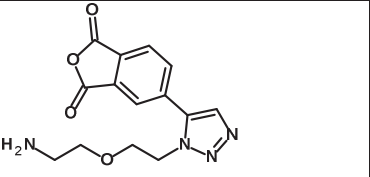
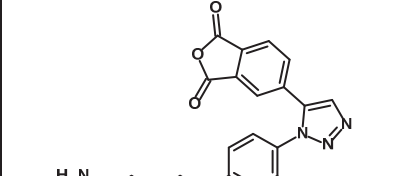
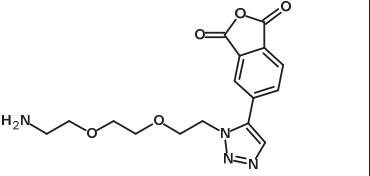
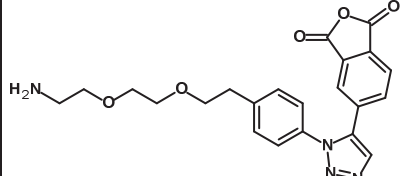
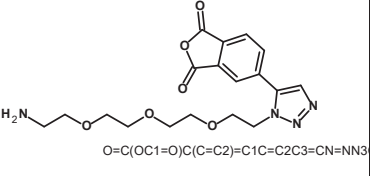
|      |                                                                                     |      |                                                                                      |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 2376 |    | 2384 |    |
| 2377 |    | 2385 |    |
| 2378 |    | 2386 |    |
| 2379 |    | 2387 |    |
| 2380 |  | 2388 |  |
| 2381 |  | 2389 |  |
| 2382 |  | 2390 |  |
| 2383 |  | 2391 |  |

FIGURE 4X

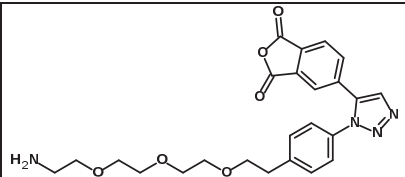
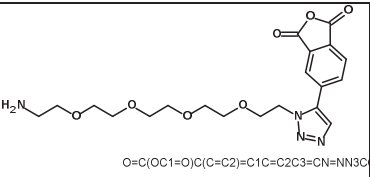
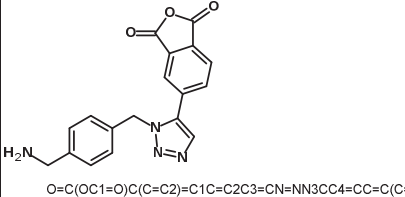
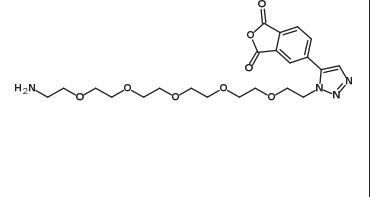
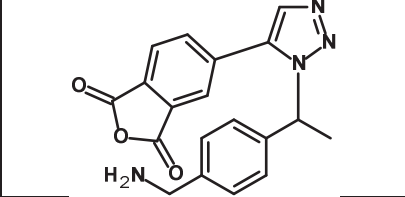
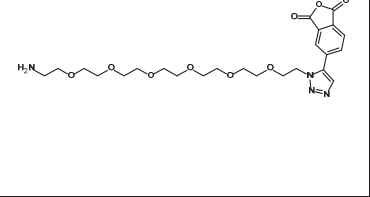
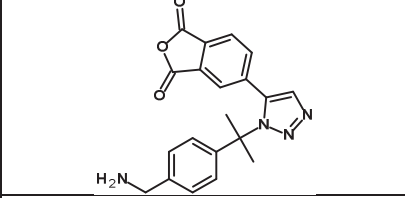
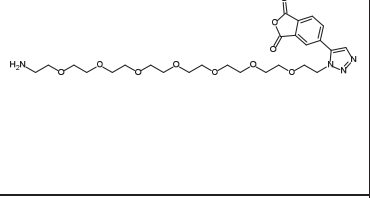
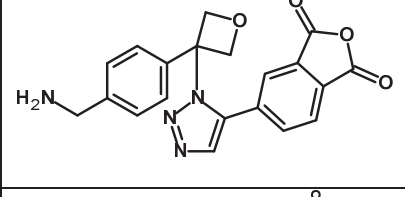
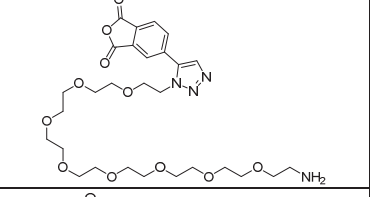
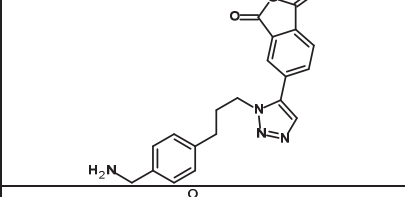
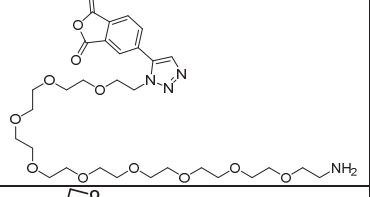
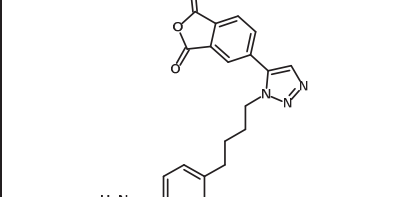
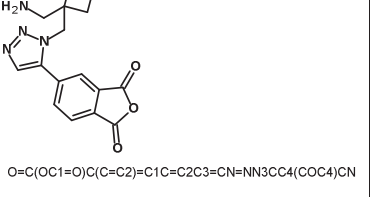
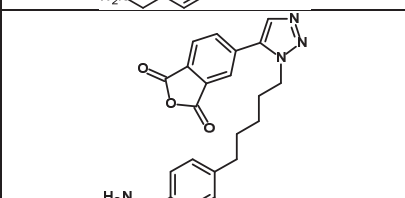
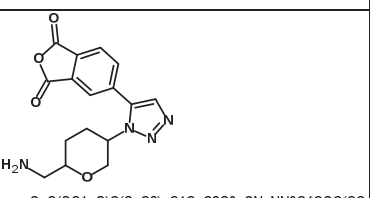
|      |                                                                                                                                                     |      |                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 2392 |                                                                    | 2400 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C</chem>             |
| 2393 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3CC4=CC=C(C=C4)CN</chem> | 2401 |                                                                 |
| 2394 |                                                                    | 2402 |                                                                 |
| 2395 |                                                                    | 2403 |                                                                 |
| 2396 |                                                                   | 2404 |                                                                |
| 2397 |                                                                  | 2405 |                                                               |
| 2398 |                                                                  | 2406 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3CC4(COC4)CN</chem> |
| 2399 |                                                                  | 2407 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4COC(C4)CN</chem> |

FIGURE 4Y

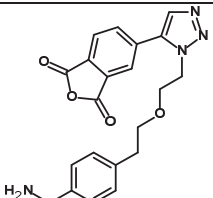
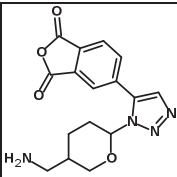
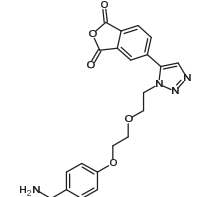
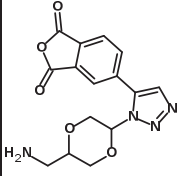
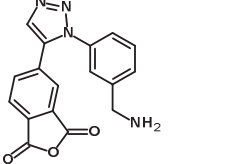
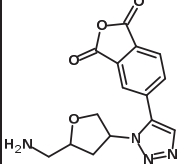
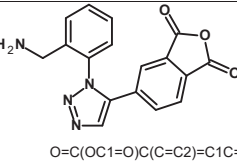
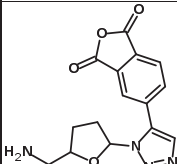
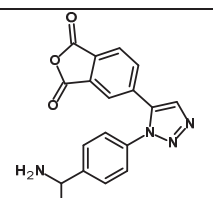
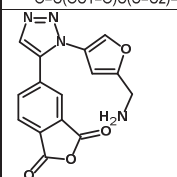
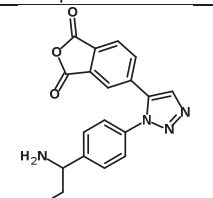
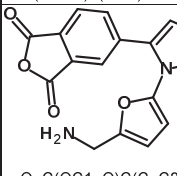
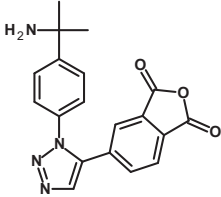
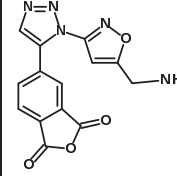
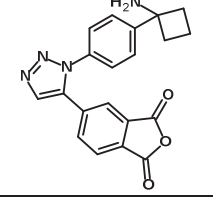
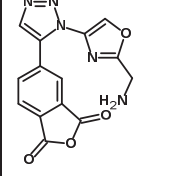
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|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
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| 2409 |    | 2417 |    |
| 2410 |    | 2418 |    |
| 2411 |    | 2419 |    |
| 2412 |  | 2420 |  |
| 2413 |  | 2421 |  |
| 2414 |  | 2422 |  |
| 2415 |  | 2423 |  |

FIGURE 4Z

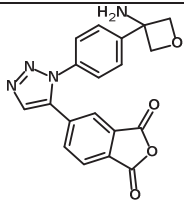
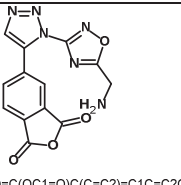
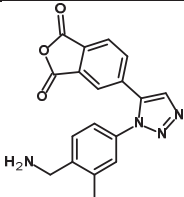
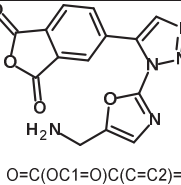
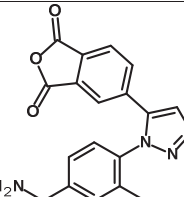
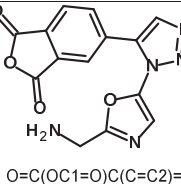
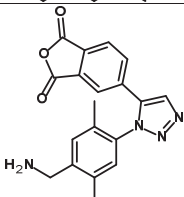
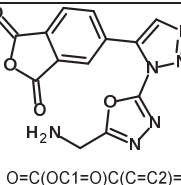
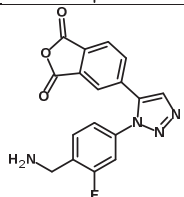
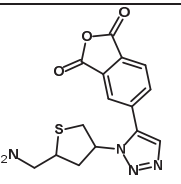
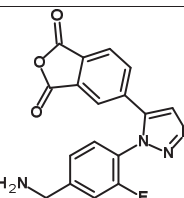
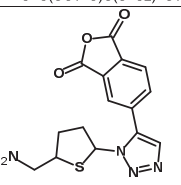
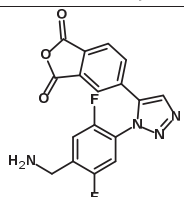
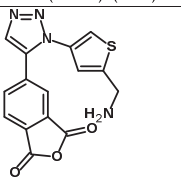
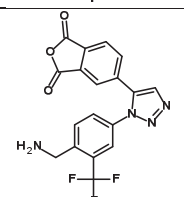
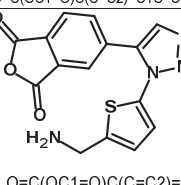
|      |                                                                                     |      |                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 2424 |    | 2432 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=NOC(CN)=N4</chem> |
| 2425 |    | 2433 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4</chem>            |
| 2426 |    | 2434 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4</chem>            |
| 2427 |   | 2435 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4</chem>            |
| 2428 |  | 2436 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4CC(SC4</chem>    |
| 2429 |  | 2437 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4SC(C4</chem>     |
| 2430 |  | 2438 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CSC(CN)=</chem> |
| 2431 |  | 2439 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4</chem>          |

FIGURE 4AA

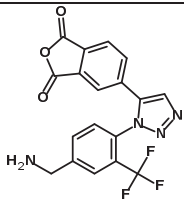
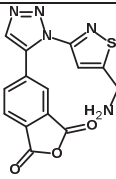
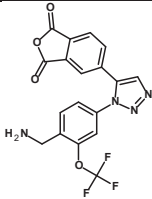
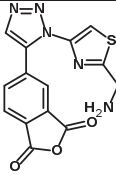
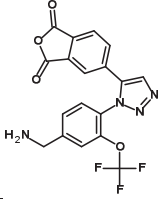
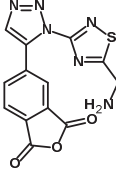
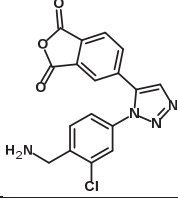
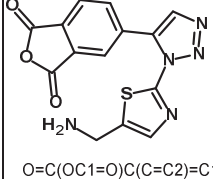
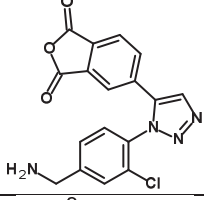
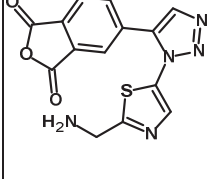
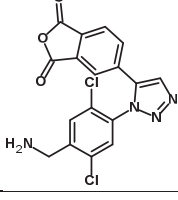
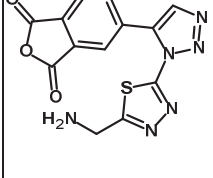
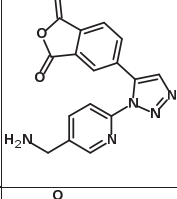
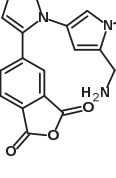
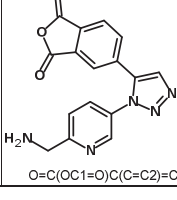
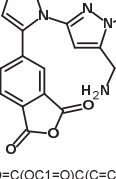
|      |                                                                                                                                                     |      |                                                                                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2440 |                                                                    | 2448 |                                                                    |
| 2441 |                                                                    | 2449 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CSC(CN)=</chem>      |
| 2442 |                                                                    | 2450 |                                                                    |
| 2443 |                                                                   | 2451 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CSC(CN)=</chem>      |
| 2444 |                                                                  | 2452 |                                                                  |
| 2445 |                                                                  | 2453 |                                                                  |
| 2446 |                                                                  | 2454 |                                                                  |
| 2447 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CN=C(C=C4)C</chem> | 2455 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=NN(C)C(C4)=</chem> |

FIGURE 4BB

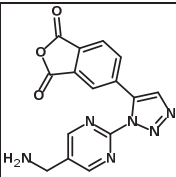
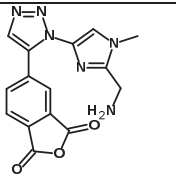
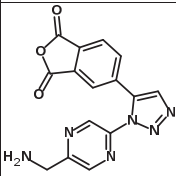
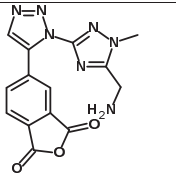
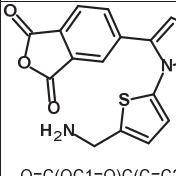
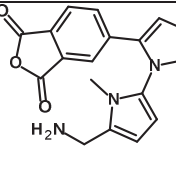
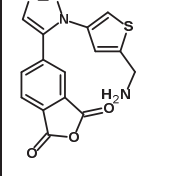
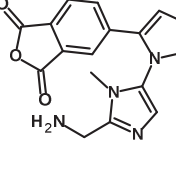
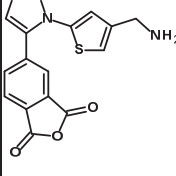
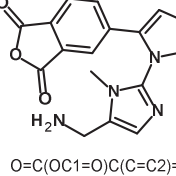
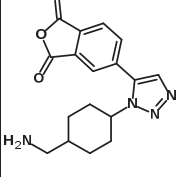
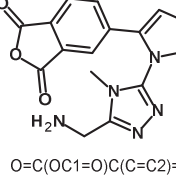
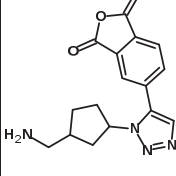
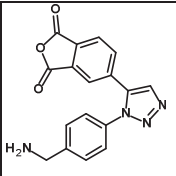
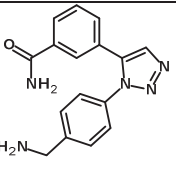
|      |                                                                                                                                                      |      |                                                                                                                                                      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2456 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=NC=C(C=N4)C</chem>    | 2464 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CN(C)C(C=N4)C</chem> |
| 2457 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C(N=C4)=CN=C4C</chem>    | 2465 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=NN(C)C(C=N4)C</chem> |
| 2458 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C(S4)=C</chem>           | 2465 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C(S4)=C</chem>          |
| 2459 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C(S4)=C</chem>           | 2467 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C(N=C4)=CN=C4C</chem>   |
| 2460 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C(N=C4)=CN=C4C</chem>  | 2468 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C(N=C4)=CN=C4C</chem> |
| 2461 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C(N=C4)=CN=C4C</chem>  | 2469 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C(N=C4)=CN=C4C</chem> |
| 2462 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C(N=C4)=CN=C4C</chem>  |      |                                                                                                                                                      |
| 2463 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CC=C(C=C4)CN</chem> | 2470 | <br><chem>NC(C1=CC=CC(C2=CN=NN2C3=CC=C(C=C3)CN)=C1)C</chem>      |

FIGURE 4CC

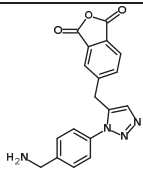
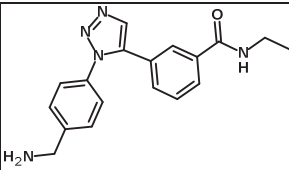
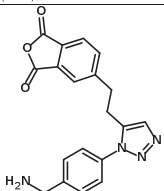
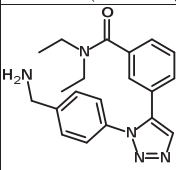
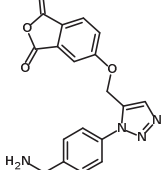
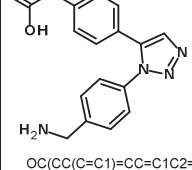
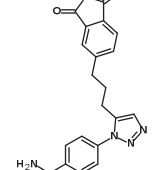
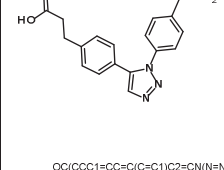
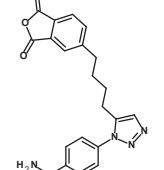
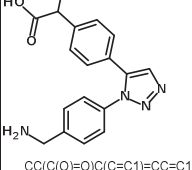
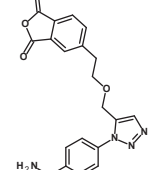
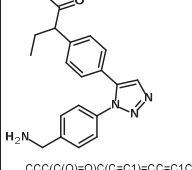
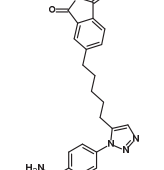
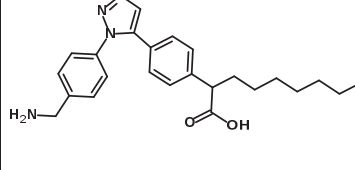
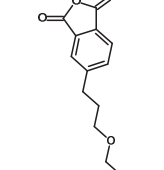
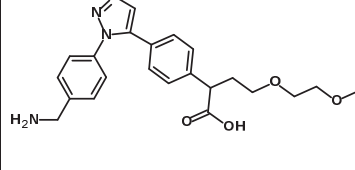
|      |                                                                                                                                                       |      |                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2471 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2CC3=CN=NN3C4=CC=C(C=C4)CN</chem>   | 2479 | <br><chem>CCNC(C1=CC=CC(C2=CN(N=N2)C3=CC=C(C=C3)C(=O)NCC)C=C1)C=C1</chem>       |
| 2472 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2CC3=CN=NN3C4=CC=C(C=C4)CN</chem>   | 2480 | <br><chem>O=C(N(CC)CC)C1=CC=CC(C2=CN(N=N2)C3=CC=C(C=C3)C(=O)NCC)C=C1</chem>     |
| 2473 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2CC3=CN=NN3C4=CC=C(C=C4)CN</chem>   | 2481 | <br><chem>OC(CC(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)C(=O)O)C=C1</chem>             |
| 2474 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2CC3=CN=NN3C4=CC=C(C=C4)CN</chem>   | 2482 | <br><chem>OC(CCC1=CC=C(C=C1)C2=CN(N=N2)C3=CC=C(C=C3)CN)=O</chem>                |
| 2475 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2CC3=CN=NN3C4=CC=C(C=C4)CN</chem>  | 2483 | <br><chem>CC(C(O)=O)C(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)C(=O)O</chem>           |
| 2476 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2CC3=CN=NN3C4=CC=C(C=C4)CN</chem> | 2484 | <br><chem>CCC(C(O)=O)C(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)CN</chem>             |
| 2477 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2CC3=CN=NN3C4=CC=C(C=C4)CN</chem> | 2485 | <br><chem>CCCCCCCCC(C(=O)O)C(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)C(=O)NCC</chem> |
| 2478 | <br><chem>O=C(OC1=O)C(C=C2)=C1C=C2CC3=CN=NN3C4=CC=C(C=C4)CN</chem> | 2486 | <br><chem>COCCOC(C(=O)O)C(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C=C3)C(=O)NCC</chem>    |

FIGURE 4DD

|      |  |      |                                                                    |
|------|--|------|--------------------------------------------------------------------|
| 2487 |  | 2494 |                                                                    |
| 2488 |  | 2495 |                                                                    |
| 2489 |  | 2496 |                                                                    |
| 2490 |  | 2497 | <br><chem>OP(C(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C(C=C3)CN)(O)=O</chem>  |
| 2491 |  | 2498 | <br><chem>O=S(C(C=C1)=CC=C1C2=CN=NN2C3=CC=C(C(C=C3)CN)(N)=O</chem> |
| 2492 |  | 2499 |                                                                    |
| 2493 |  | 2500 |                                                                    |

FIGURE 4EE

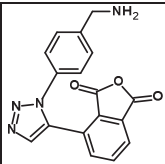
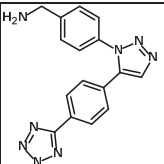
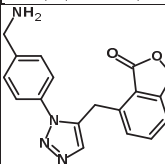
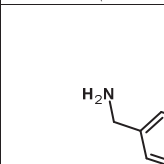
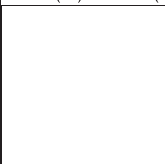
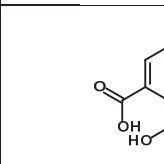
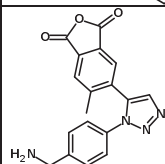
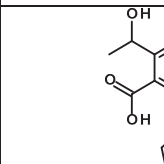
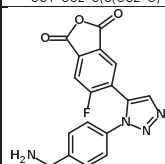
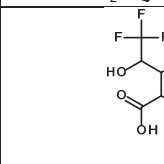
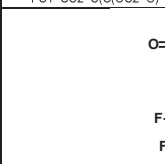
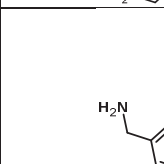
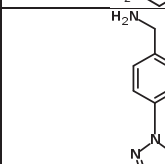
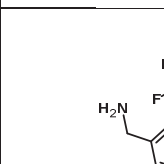
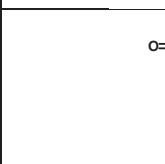
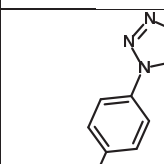
|      |                                                                                                                                                      |      |                                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2501 | <br><chem>O=C(O)C2=CC=CC(C3=CN=NN3C4=CC=C(C=C4)CN)=C2C1=O</chem>    | 2509 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem>   |
| 2502 | <br><chem>O=C(O)C2=CC=CC(CC3=CN=NN3C4=CC=C(C=C4)CN)=C2C1=O</chem>   | 2510 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem>   |
| 2503 | <br><chem>O=C(O)C2=CC=CC(CC3=CN=NN3C4=CC=C(C=C4)CN)=C2C1=O</chem>   | 2511 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem>   |
| 2504 | <br><chem>CC1=CC2=C(C(OC2=O)=O)C=C1C3=CN=NN3C4=CC=C(C=C4)CN</chem>  | 2512 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem>   |
| 2505 | <br><chem>FC1=CC2=C(C(OC2=O)=O)C=C1C3=CN=NN3C4=CC=C(C=C4)CN</chem> | 2513 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem>  |
| 2506 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem>    | 2514 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem> |
| 2507 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem>    | 2515 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem> |
| 2508 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem>    | 2516 | <br><chem>NCC1=CC=C(N2N=NC=C2C3=CC=C(C4=NN=NN4)C=C3)C=C</chem> |

FIGURE 4FF

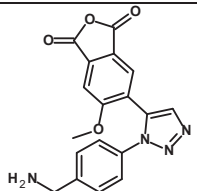
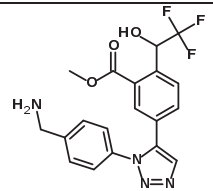
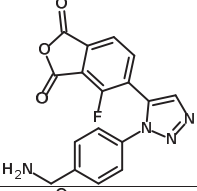
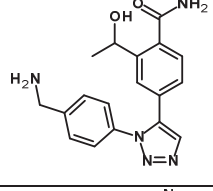
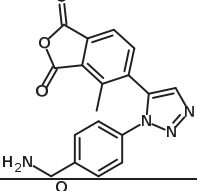
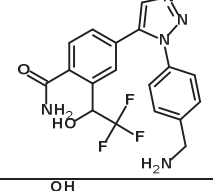
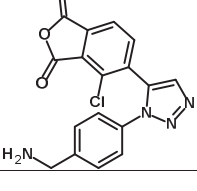
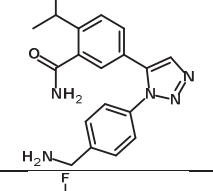
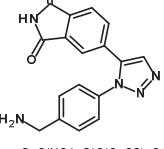
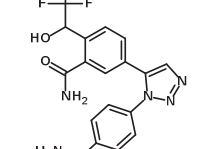
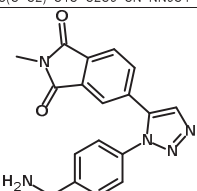
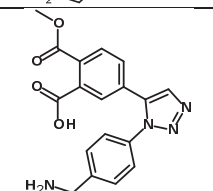
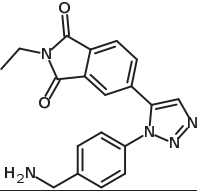
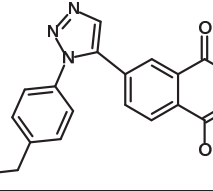
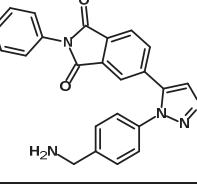
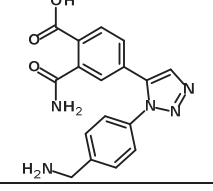
|      |                                                                                                                                                     |      |                                                                                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 2517 |                                                                    | 2525 |    |
| 2518 |                                                                    | 2526 |    |
| 2519 |                                                                    | 2527 |    |
| 2520 |                                                                    | 2528 |    |
| 2521 | <br><chem>O=C(NC1=O)C(C=C2)=C1C=C2C3=CN=NN3C4=CC=C(C(C4)CN</chem> | 2529 |   |
| 2522 |                                                                  | 2530 |  |
| 2523 |                                                                  | 2531 |  |
| 2524 |                                                                  | 2532 |  |

FIGURE 4GG

|      |  |      |  |
|------|--|------|--|
| 2533 |  | 2541 |  |
| 2534 |  | 2542 |  |
| 2535 |  | 2543 |  |
| 2536 |  | 2544 |  |
| 2537 |  | 2545 |  |
| 2538 |  | 2546 |  |
| 2539 |  | 2547 |  |
| 2540 |  | 2548 |  |

FIGURE 4HH

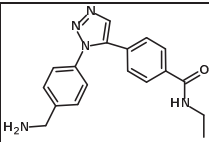
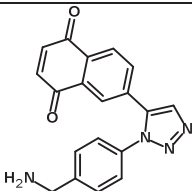
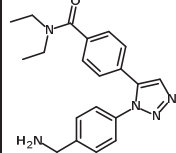
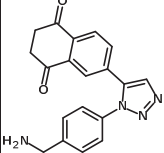
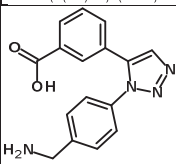
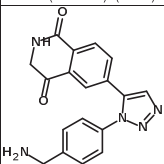
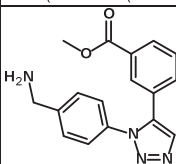
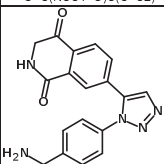
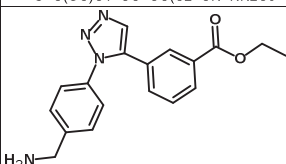
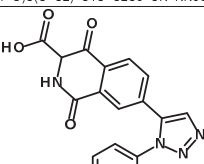
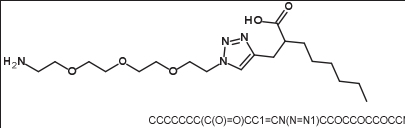
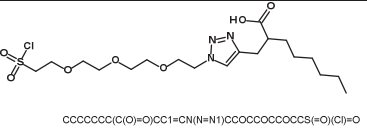
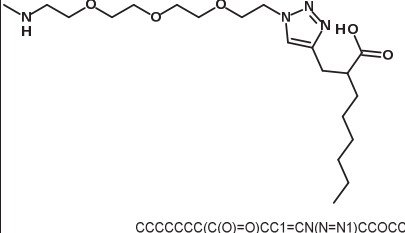
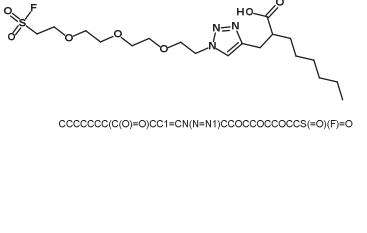
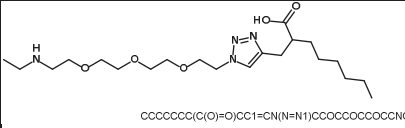
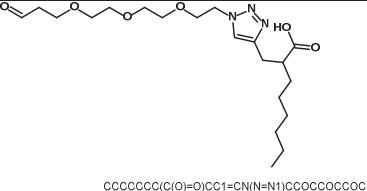
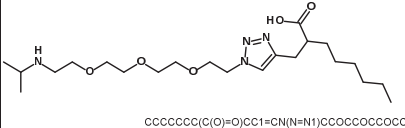
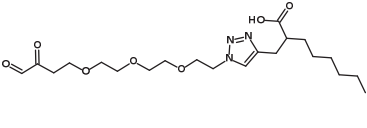
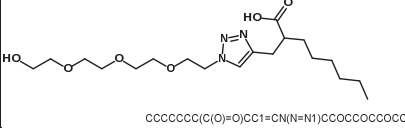
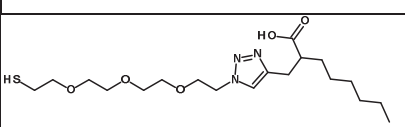
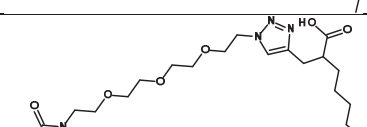
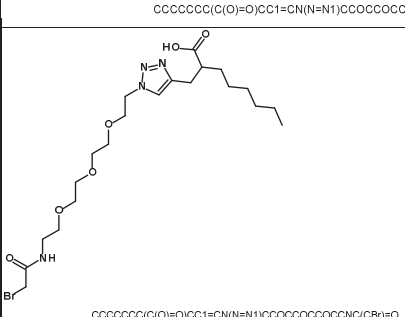
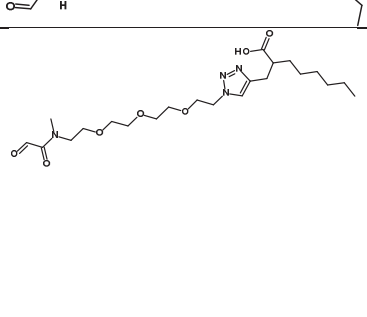
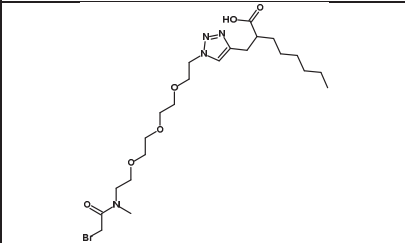
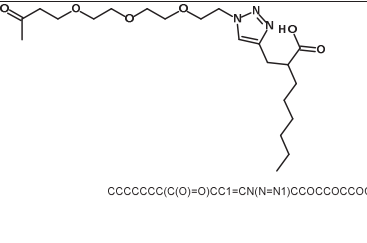
|      |                                                                                                                                                     |      |                                                                                                                                                        |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2549 | <br><chem>CCNC(=O)c1ccc(cc1)-c2nc3ccc(cc3n2)Cc4ccc(N)cc4</chem>    | 2554 | <br><chem>Nc1ccc(cc1)-c2nc3ccc(cc3n2)C(=O)c4ccccc4</chem>           |
| 2550 | <br><chem>O=C(N(C)CC)c1ccc(cc1)-c2nc3ccc(cc3n2)Cc4ccc(N)cc4</chem> | 2555 | <br><chem>O=C(CCC(=O)O)c1ccc(cc1)-c2nc3ccc(cc3n2)Cc4ccc(N)cc4</chem> |
| 2551 | <br><chem>OC(=O)c1ccc(cc1)-c2nc3ccc(cc3n2)Cc4ccc(N)cc4</chem>      | 2556 | <br><chem>O=C(NCC(=O)O)c1ccc(cc1)-c2nc3ccc(cc3n2)Cc4ccc(N)cc4</chem> |
| 2552 | <br><chem>O=C(OC)c1ccc(cc1)-c2nc3ccc(cc3n2)Cc4ccc(N)cc4</chem>     | 2557 | <br><chem>O=C(CNC(=O)O)c1ccc(cc1)-c2nc3ccc(cc3n2)Cc4ccc(N)cc4</chem> |
| 2553 | <br><chem>CCOC(=O)c1ccc(cc1)-c2nc3ccc(cc3n2)Cc4ccc(N)cc4</chem>   | 2558 | <br><chem>OC(=O)c1ccc(cc1)-c2nc3ccc(cc3n2)Cc4ccc(N)cc4</chem>      |

FIGURE 5A

|      |                                                                                                                                                    |      |                                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2559 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCN</chem>         | 2567 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCS(=O)(Cl)=O</chem> |
| 2560 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>          | 2568 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCS(=O)(F)=O</chem>  |
| 2561 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCN</chem>         | 2569 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>            |
| 2562 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>          | 2570 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>            |
| 2563 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>         | 2571 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>           |
| 2564 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>        | 2572 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>          |
| 2565 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCN(C)CBr</chem> | 2573 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>          |
| 2566 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>        | 2574 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC</chem>          |

**FIGURE 5B**

|      |  |      |  |
|------|--|------|--|
| 2575 |  | 2581 |  |
| 2576 |  | 2582 |  |
| 2577 |  | 2583 |  |
| 2578 |  | 2584 |  |
| 2579 |  | 2585 |  |
| 2580 |  | 2586 |  |

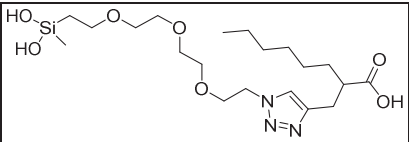
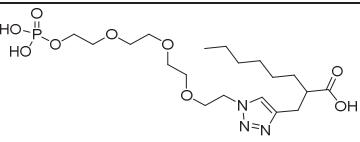
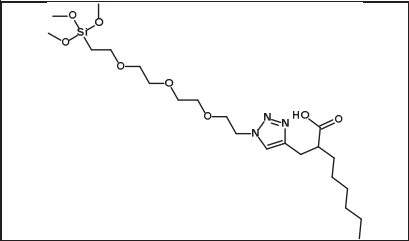
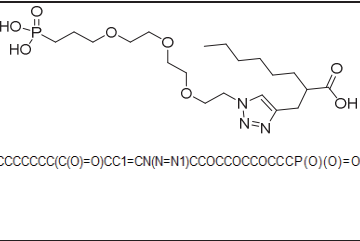
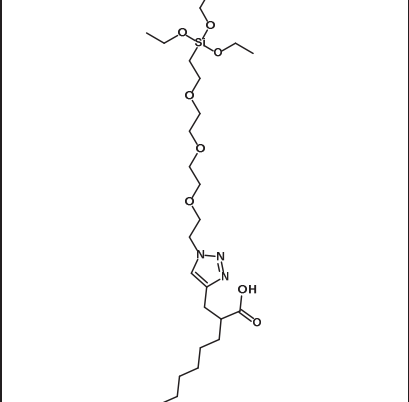
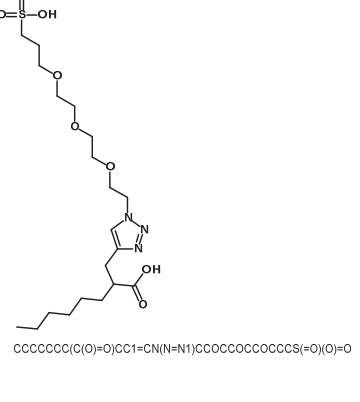
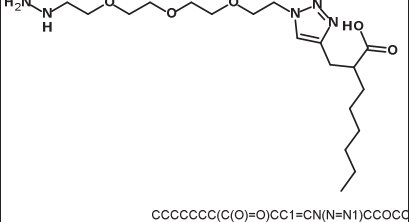
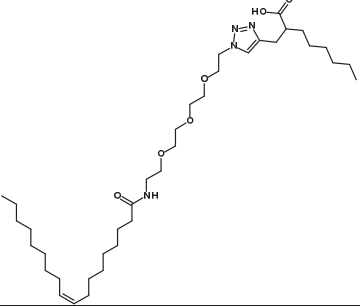
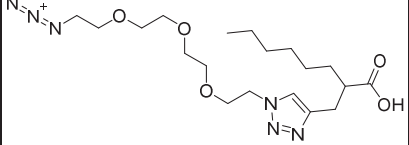
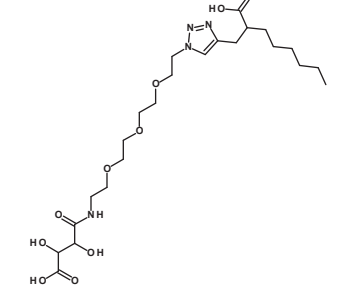
**FIGURE 5C**

|      |  |      |  |
|------|--|------|--|
| 2587 |  | 2592 |  |
| 2588 |  | 2593 |  |
| 2589 |  | 2594 |  |
| 2590 |  | 2595 |  |
| 2591 |  | 2596 |  |

FIGURE 5D

|      |  |      |  |
|------|--|------|--|
| 2597 |  | 2603 |  |
| 2598 |  | 2604 |  |
| 2599 |  | 2605 |  |
| 2600 |  | 2606 |  |
| 2601 |  | 2607 |  |
| 2602 |  | 2608 |  |

FIGURE 5E

|      |                                                                                                                                                         |      |                                                                                                                                                         |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2609 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCC[Si](O)(O)(C)O</chem> | 2614 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCOP(O)(O)=O</chem>    |
| 2610 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCOP(O)(O)=O</chem>     | 2615 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCOP(O)(O)=O</chem>    |
| 2611 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCOP(O)(O)=O</chem>    | 2616 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCOP(O)(O)=O</chem>   |
| 2612 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCOP(O)(O)=O</chem>   | 2617 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOCCOCCOP(O)(O)=O</chem>  |
| 2613 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(CCOCCOCCOCCN=[N+]=[N-])N=N1</chem>  | 2618 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(CCOCCOCCOCCN=[N+]=[N-])N=N1</chem> |

**FIGURE 5F**

|      |                                              |      |  |
|------|----------------------------------------------|------|--|
| 2619 | <br>CCCCCCC(C(=O)=O)CC1=CN(N=N1)COCOCOCOCOCO | 2626 |  |
| 2620 |                                              | 2627 |  |
| 2621 |                                              | 2628 |  |
| 2622 |                                              | 2629 |  |
| 2623 |                                              | 2630 |  |
| 2624 | <br>CCCCCCC(C(=O)=O)CC1=CN(N=N1)COCOCOCOCOCO | 2631 |  |
| 2625 | <br>CCCCCCC(C(=O)=O)CC1=CN(N=N1)COCOCOCOCOCO | 2632 |  |

**FIGURE 5G**

|      |                                           |
|------|-------------------------------------------|
| 2633 | <br>CCCCCCC(C(O)=O)CC1=CN(N=N1)CCOCOCOCOC |
| 2639 |                                           |
| 2634 |                                           |
| 2640 |                                           |
| 2635 |                                           |
| 2641 |                                           |
| 2636 |                                           |
| 2642 |                                           |
| 2637 |                                           |
| 2643 |                                           |
| 2638 |                                           |
| 2644 |                                           |

FIGURE 5H

|      |                                                            |      |                                                    |
|------|------------------------------------------------------------|------|----------------------------------------------------|
| 2645 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC</chem>         | 2652 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCN=</chem>  |
| 2646 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=C(C2)N</chem>  | 2653 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCN</chem>   |
| 2647 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C=C2)CC=CC2</chem> | 2654 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCN</chem>   |
| 2648 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C=C2)CC=CC2</chem> | 2655 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCN</chem>   |
| 2649 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C=C2)CC=CC2</chem> | 2656 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCN</chem>   |
| 2650 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C=C2)CC=CC2</chem> | 2657 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCN</chem>   |
| 2651 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C=C2)CC=CC2</chem> | 2658 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCC</chem> |

FIGURE 5I

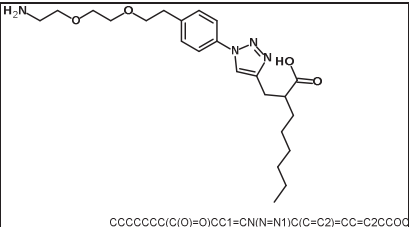
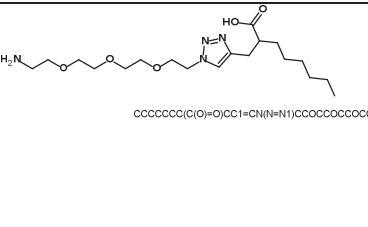
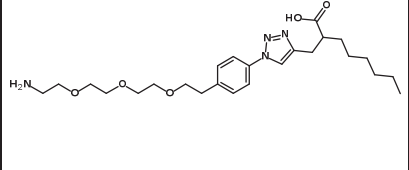
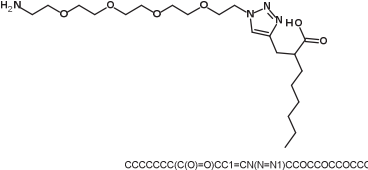
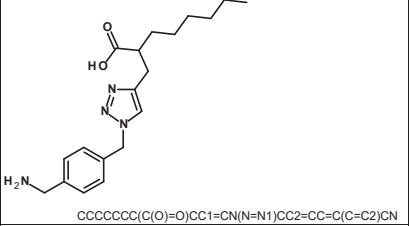
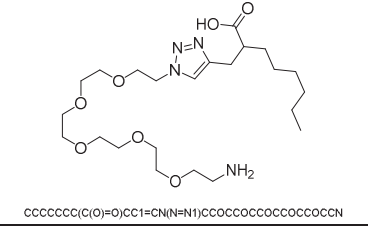
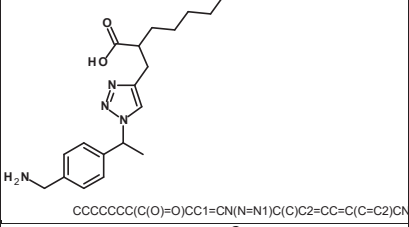
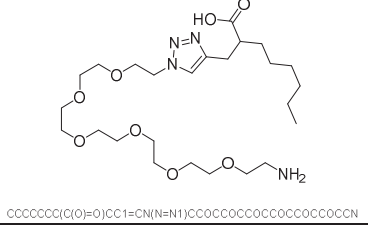
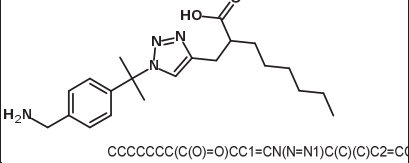
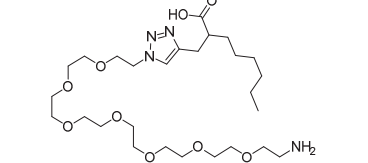
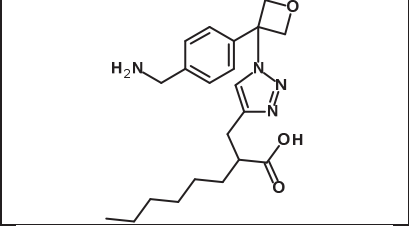
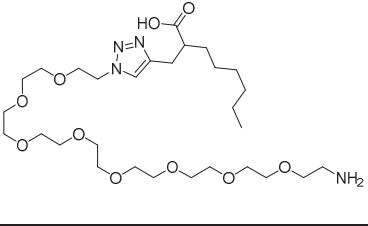
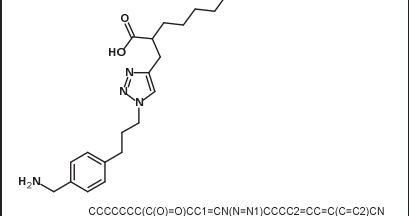
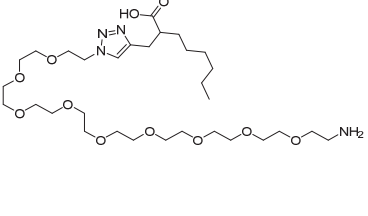
|      |                                                                                                                                                     |      |                                                                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------|
| 2659 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C=C2)=CC=C2CCOC</chem>     | 2666 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOC</chem>   |
| 2660 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C=C2)=CC=C2CCOC</chem>     | 2667 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOC</chem>   |
| 2661 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CC2=CC=C(C=C2)CN</chem>      | 2668 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOC</chem>   |
| 2662 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C)C2=CC=C(C=C2)CN</chem>  | 2669 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOC</chem>  |
| 2663 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C)C2=CC=C(C=C2)CN</chem> | 2670 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOC</chem> |
| 2664 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C)C2=CC=C(C=C2)CN</chem> | 2671 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOC</chem> |
| 2665 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOC</chem>                | 2672 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOC</chem> |

FIGURE 5J

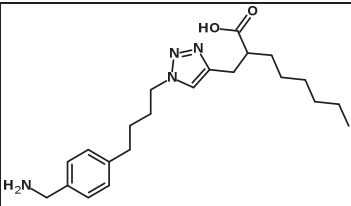
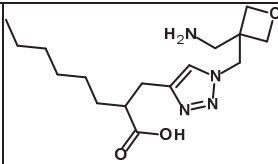
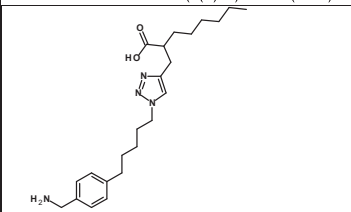
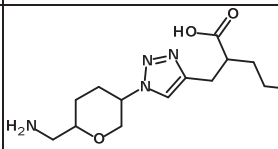
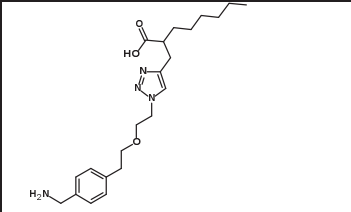
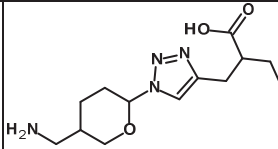
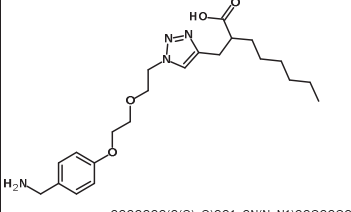
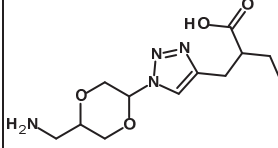
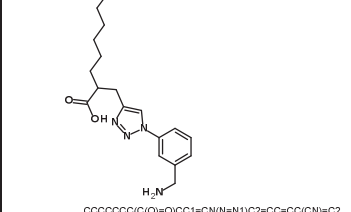
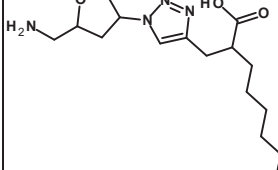
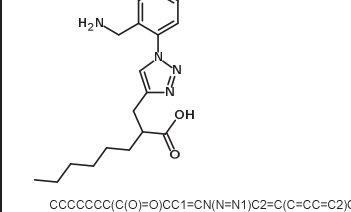
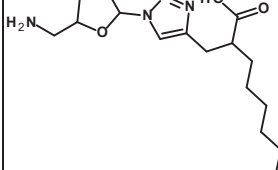
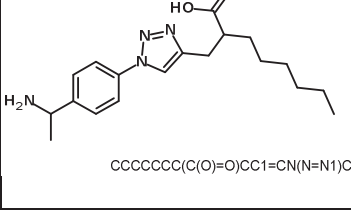
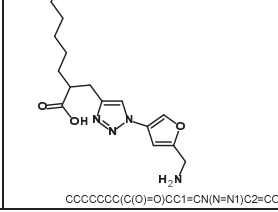
|      |                                                                                                                                                    |      |                                                                                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 2673 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCCCC2=CC=C(C2)CN</chem>    | 2680 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CC2(C)C</chem>        |
| 2674 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCCCC2=CC=C(C2)CN</chem>    | 2681 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2</chem>             |
| 2675 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCCCC2=CC=C(C2)CN</chem>    | 2682 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)</chem>               |
| 2676 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)CCOCCOC2=CC=C(C2)CN</chem> | 2683 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)</chem>              |
| 2677 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=CC(CN)=C2</chem>    | 2684 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2CC</chem>         |
| 2678 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=C(C=C(C2)CN</chem>     | 2685 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2OC</chem>         |
| 2679 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=C</chem>            | 2686 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC(CN)=C2</chem> |

FIGURE 5K

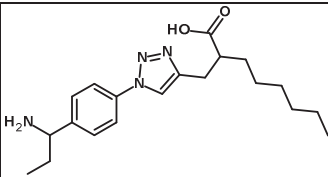
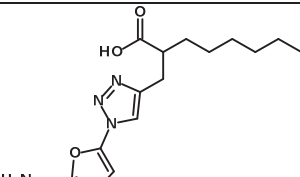
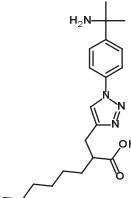
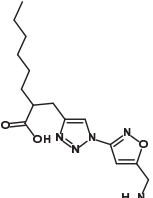
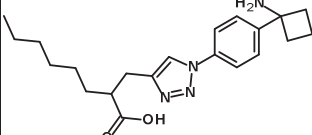
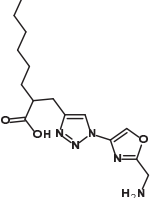
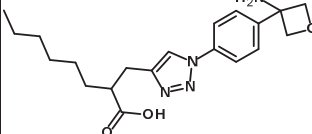
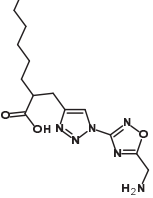
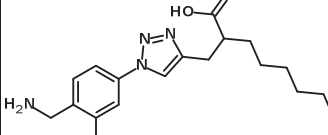
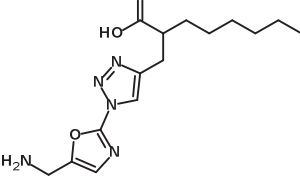
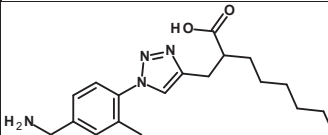
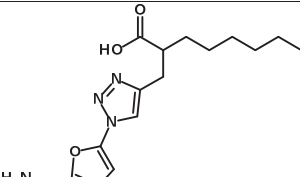
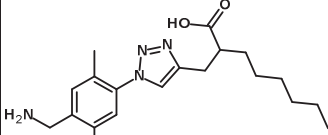
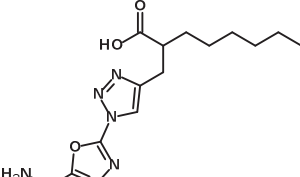
|      |                                                                                                                                                     |      |                                                                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2687 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=C(C=C2)N(C)CC</chem>   | 2694 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(O2)</chem>                |
| 2688 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=C(C=C2)C(C)C(N)</chem> | 2695 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(O2)</chem>                |
| 2689 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=C(C=C2)N(C)CC</chem>   | 2696 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=C(C=C2)N(C)CC</chem>  |
| 2690 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=C(C=C2)N(C)CC</chem>  | 2697 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=C(C=C2)N(C)CC</chem> |
| 2691 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=C(C=C2)N(C)CC</chem> | 2698 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(O2)</chem>              |
| 2692 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C)C=C2</chem>            | 2699 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(O2)</chem>              |
| 2693 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC=C(C=C2)N(C)CC</chem> | 2700 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(O2)</chem>              |

FIGURE 5L

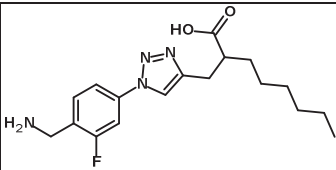
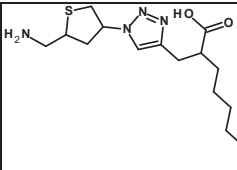
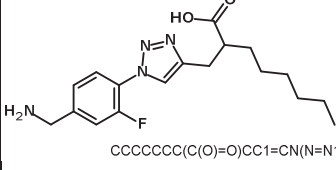
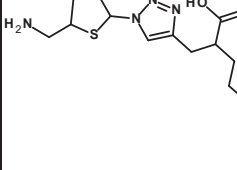
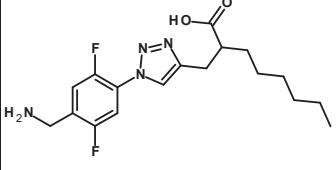
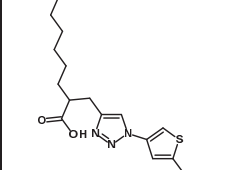
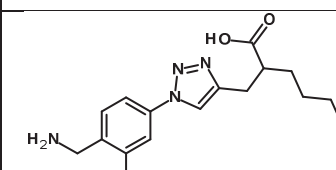
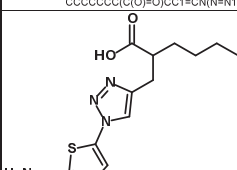
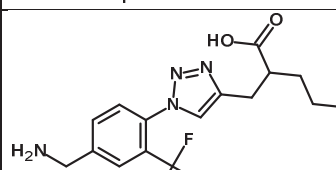
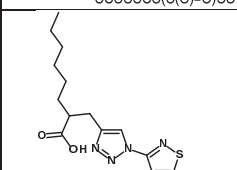
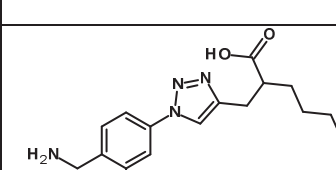
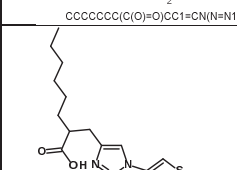
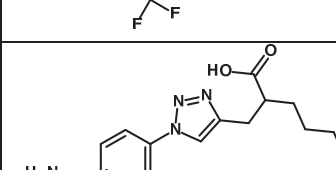
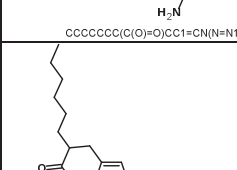
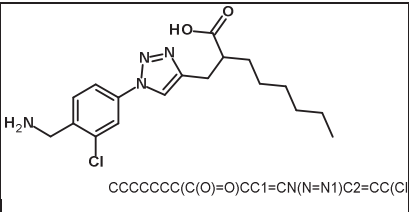
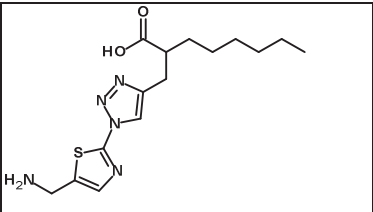
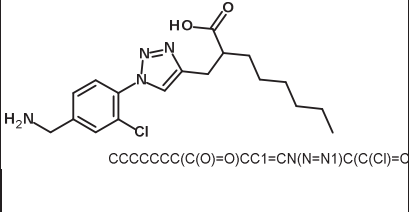
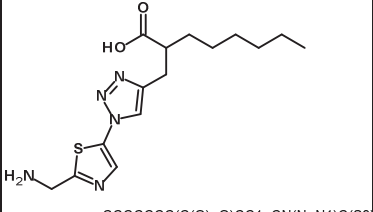
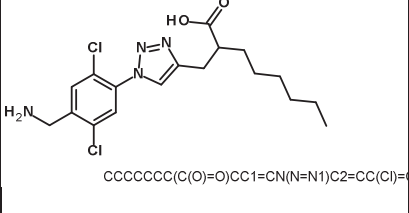
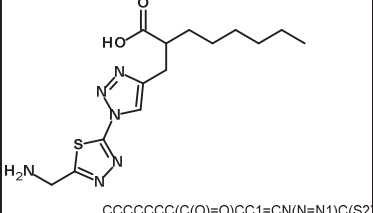
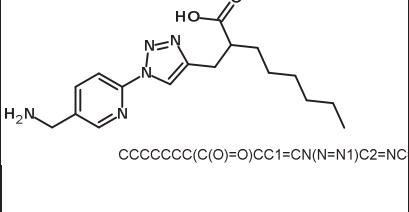
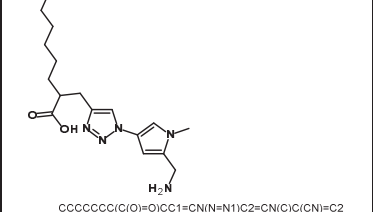
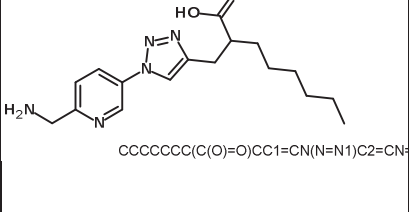
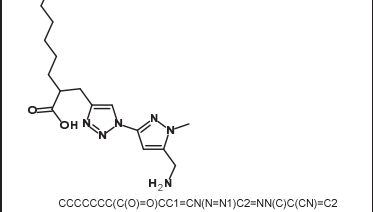
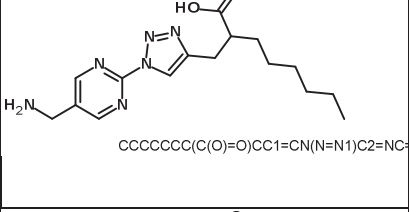
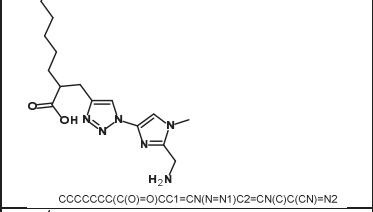
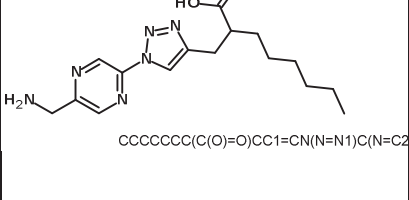
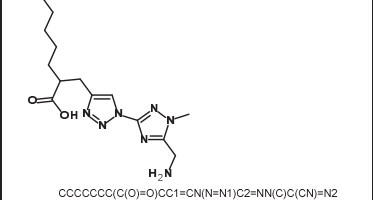
|      |                                                                                                                                           |      |                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 2701 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC(F)=</chem>   | 2708 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2CC(SC2)CN</chem>     |
| 2702 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(C(F)=C</chem>    | 2709 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2SC(C2</chem>         |
| 2703 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC(F)=</chem>   | 2710 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CSC(CN)=C2</chem>   |
| 2704 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC(F)=</chem>  | 2711 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(S2)=CC</chem>       |
| 2705 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC(F)=</chem> | 2712 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=NSC(CN)=C2</chem> |
| 2706 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC(F)=</chem> | 2713 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CSC(CN)=N2</chem> |
| 2707 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC(F)=</chem> | 2714 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=NSC(CN)=N2</chem> |

FIGURE 5M

|      |                                                                                                                                                             |      |                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2715 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC(Cl)=CC=C2NCCc1ccc(Cl)cc1</chem> | 2722 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C(S2)=CC=C2NCCc1ccc(Cl)cc1</chem>        |
| 2716 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C(C(C)=O)=CC=C2NCCc1ccc(Cl)cc1</chem> | 2723 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C(S2)=CC=C2NCCc1ccc(Cl)cc1</chem>        |
| 2717 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC(Cl)=CC=C2NCCc1ccc(Cl)cc1</chem> | 2724 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C(S2)=CC=C2NCCc1ccc(Cl)cc1</chem>        |
| 2718 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C2=NC=CC=C2NCCc1ccc(Cl)cc1</chem>    | 2725 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C2=NC(C)C(CN)=C2NCCc1ccc(Cl)cc1</chem>  |
| 2719 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C2=NC=CC=C2NCCc1ccc(Cl)cc1</chem>   | 2726 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C2=NC(C)C(CN)=C2NCCc1ccc(Cl)cc1</chem> |
| 2720 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C2=NC=CC=C2NCCc1ccc(Cl)cc1</chem>   | 2727 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C2=NC(C)C(CN)=C2NCCc1ccc(Cl)cc1</chem> |
| 2721 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C(N=C2)=CC=C2NCCc1ccc(Cl)cc1</chem> | 2728 | <br><chem>CCCCCC(C(=O)=O)CC1=CN(N=N1)C2=NC(C)C(CN)=C2NCCc1ccc(Cl)cc1</chem> |

**FIGURE 5N**

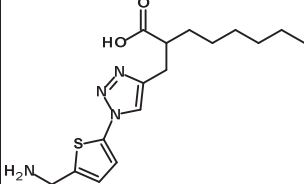
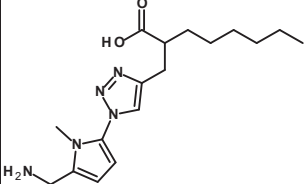
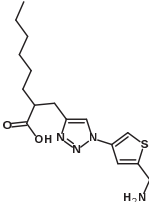
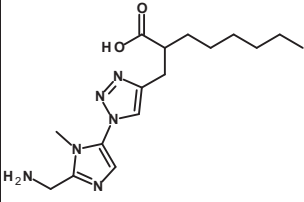
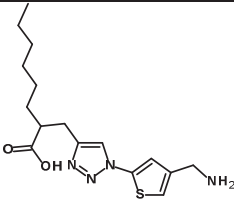
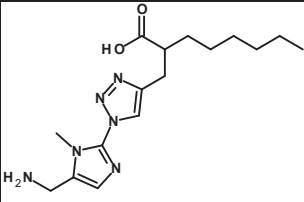
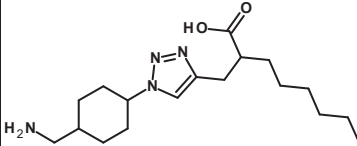
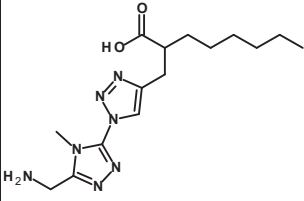
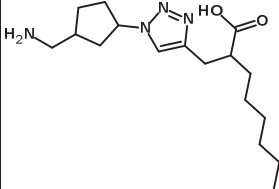
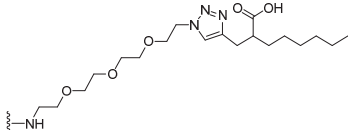
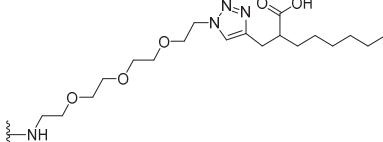
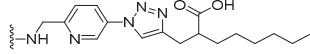
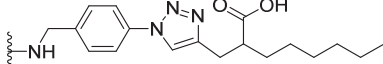
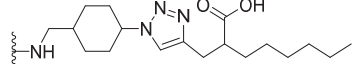
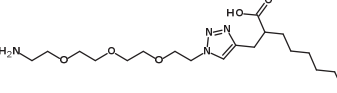
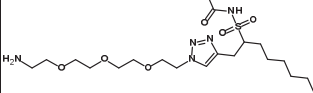
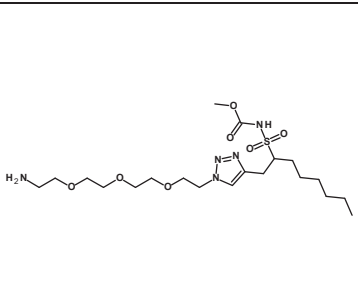
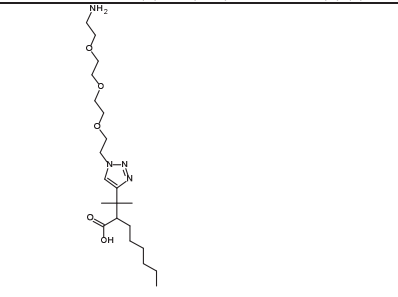
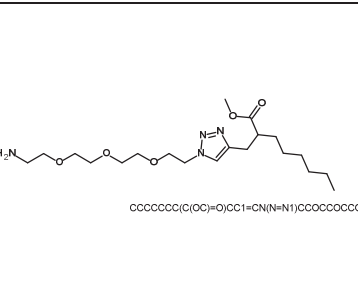
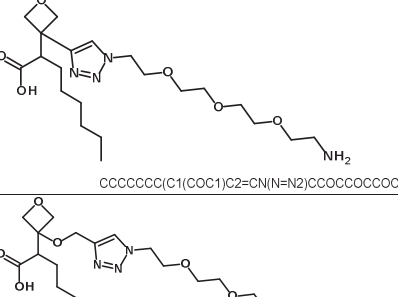
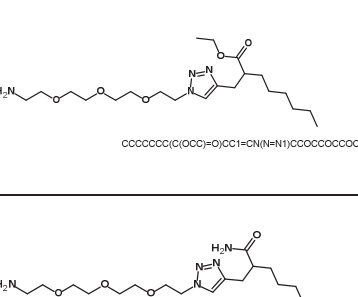
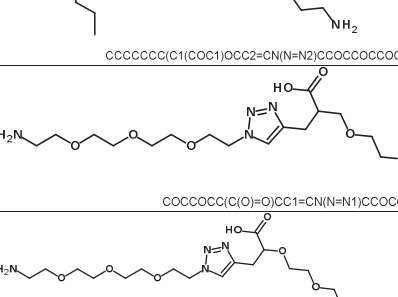
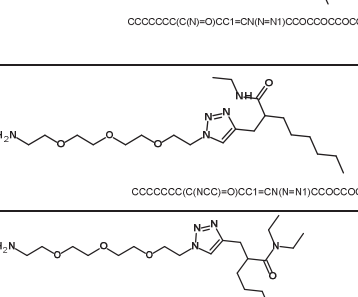
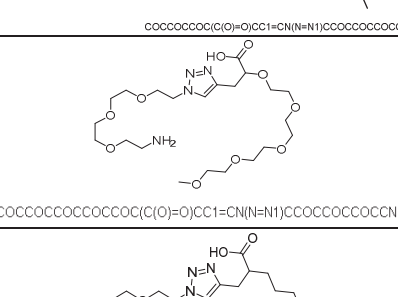
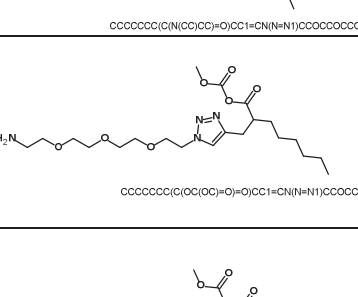
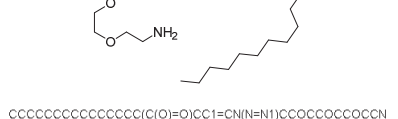
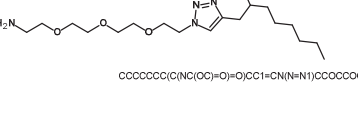
|      |                                                                                                                                                      |      |                                                                                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2729 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(S2)=CC=CSC2CN</chem>        | 2737 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(N2)C=C(C)SC2CN</chem>       |
| 2730 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CSC(CN)=C2</chem>          | 2738 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(N2)C=C(C)SC2CN</chem>       |
| 2731 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2=CC(CN)=CS2</chem>          | 2739 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(N2)C=C(C)SC2CN</chem>       |
| 2732 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2C=CC(CN)=CS2</chem>        | 2740 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(N2)C=C(C)SC2CN</chem>      |
| 2733 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2CC(C2)C3=CC=CC=C3N</chem> | 2741 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(N2)C=C(C)SC2CN</chem>     |
| 2734 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2CC(C2)C3=CC=CC=C3N</chem> | 2742 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(N2)C=C(C)SC2CN</chem>     |
| 2735 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2CC(C2)C3=CC=CC=C3N</chem> | 2743 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C(N2)C=C(C)SC2CN</chem>     |
| 2736 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2CC(C2)C3=CC=CC=C3N</chem> | 2744 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN(N=N1)C2CC(C2)C3=CC=CC=C3N</chem> |

FIGURE 50

|      |                                                                                                                                                      |      |                                                                                                                                                          |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2745 | <br><chem>CCCCCCC(C(C1=CN(N=N1)CCOCCOCCOCCN)C)C(=O)O</chem>         | 2753 | <br><chem>CCCCCCC(C(C(=O)OC)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>      |
| 2746 | <br><chem>CCCCCCC(C(C1=CN(N=N1)CCOCCOCCOCCN)C)C(=O)O</chem>         | 2754 | <br><chem>CCCCCCC(C(C(=O)OC)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>      |
| 2747 | <br><chem>CCCCCCC(C1(COC1)C2=CN(N=N2)CCOCCOCCOCCN)C(=O)O</chem>    | 2755 | <br><chem>CCCCCCC(C(C(=O)OC)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>     |
| 2748 | <br><chem>CCCCCCC(C1(COC1)OCC2=CN(N=N2)CCOCCOCCOCCN)C(=O)O</chem> | 2756 | <br><chem>CCCCCCC(C(N(C)=O)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>     |
| 2749 | <br><chem>CCCCCCC(C(C(=O)O)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>  | 2757 | <br><chem>CCCCCCC(C(NC(C)=O)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>    |
| 2750 | <br><chem>CCCCCCC(C(C(=O)O)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>  | 2758 | <br><chem>CCCCCCC(C(N(C(C)=O)C)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem> |
| 2751 | <br><chem>CCCCCCC(C(C(=O)O)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>  | 2759 | <br><chem>CCCCCCC(C(C(=O)OC)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>    |
| 2752 | <br><chem>CCCCCCC(C(C(=O)O)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>  | 2760 | <br><chem>CCCCCCC(C(NC(C)=O)C1=CN(N=N1)CCOCCOCCOCCN)C(=O)O</chem>    |

**FIGURE 5P**

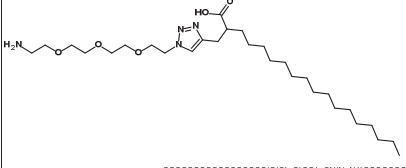
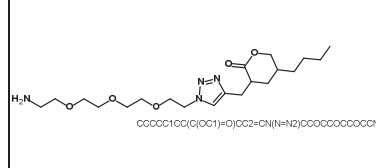
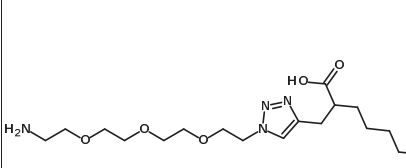
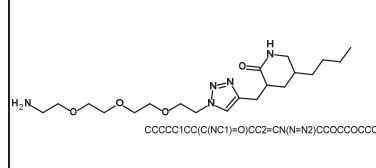
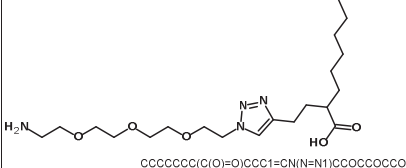
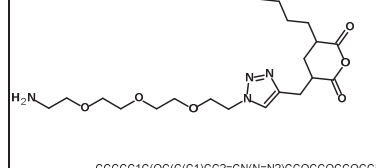
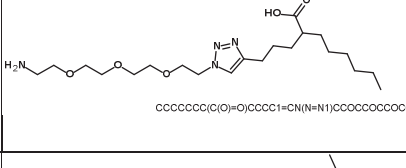
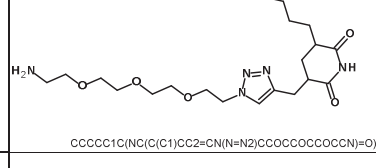
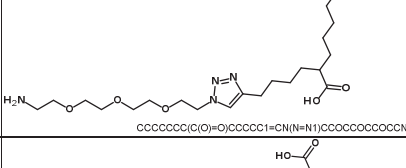
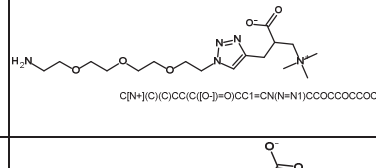
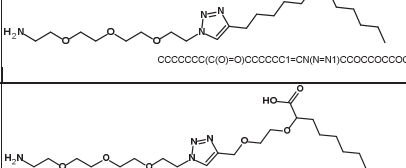
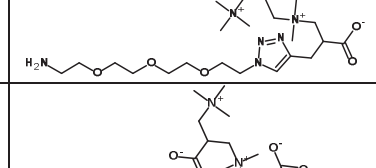
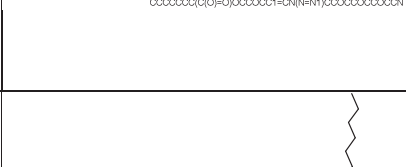
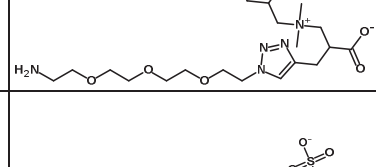
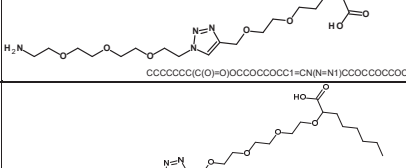
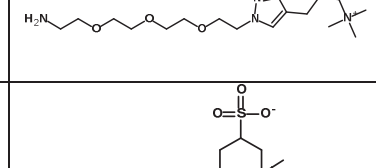
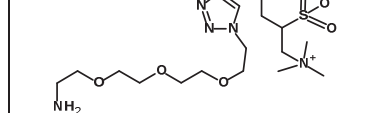
|      |                                                                                     |      |                                                                                      |
|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 2761 |    | 2770 |    |
| 2762 |    | 2771 |    |
| 2763 |    | 2772 |    |
| 2764 |    | 2773 |    |
| 2765 |   | 2774 |   |
| 2766 |  | 2775 |  |
| 2767 |  | 2776 |  |
| 2768 |  | 2777 |  |
| 2769 |  | 2778 |  |

FIGURE 5Q

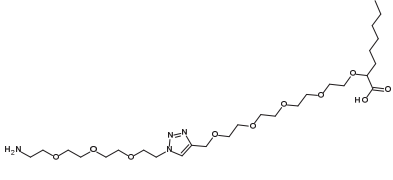
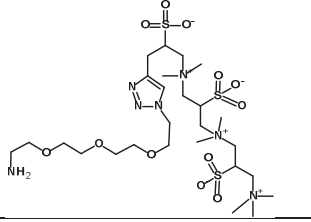
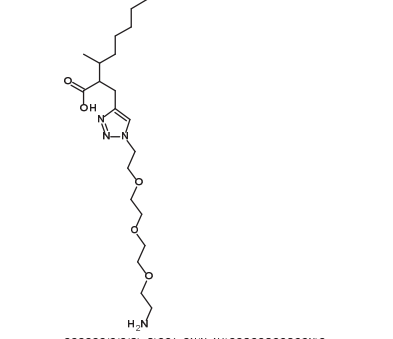
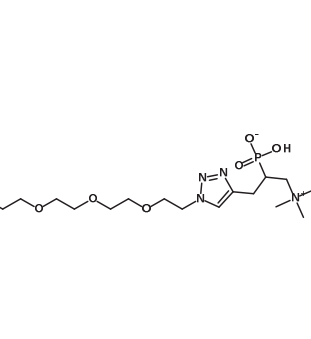
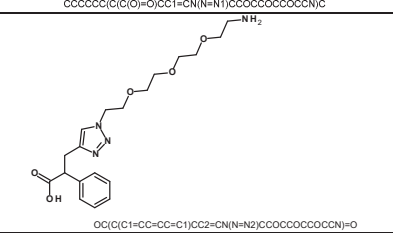
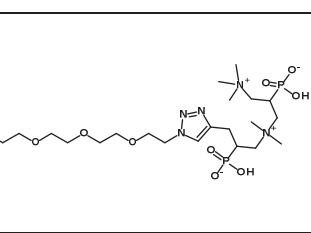
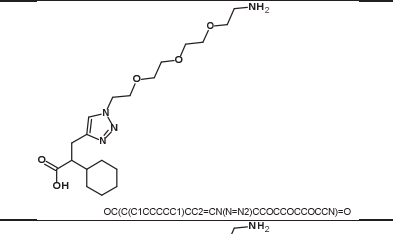
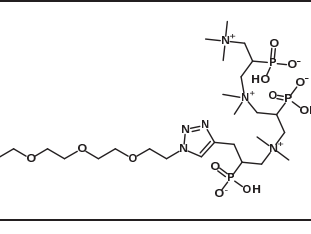
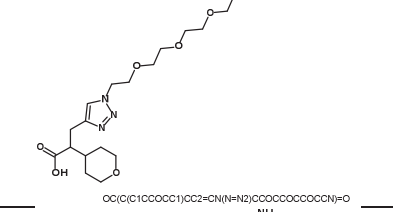
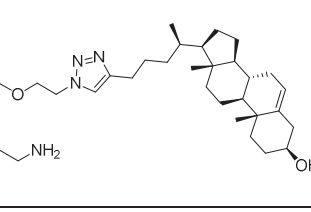
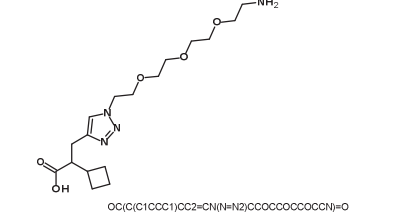
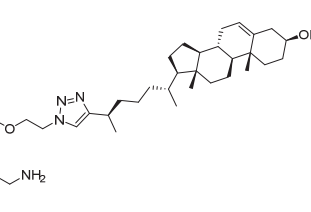
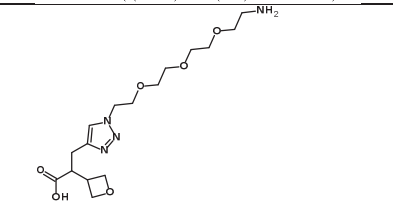
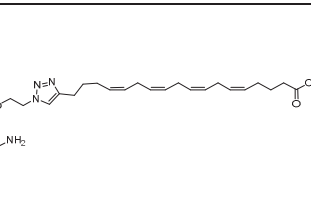
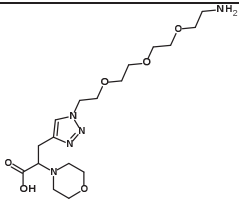
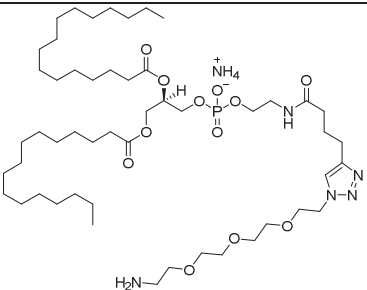
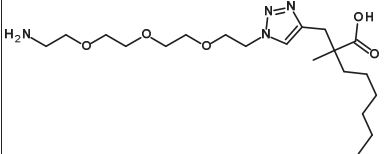
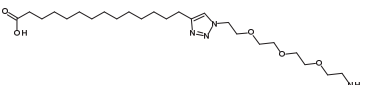
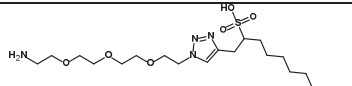
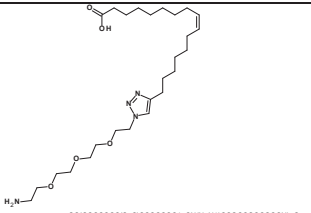
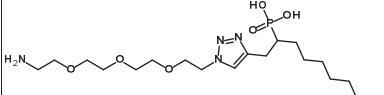
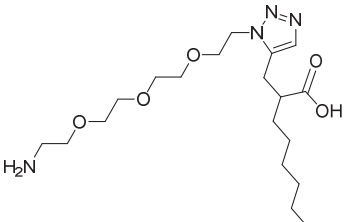
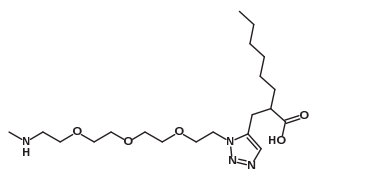
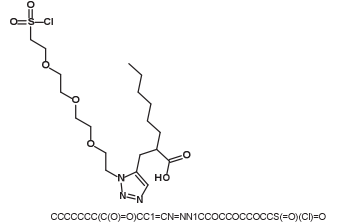
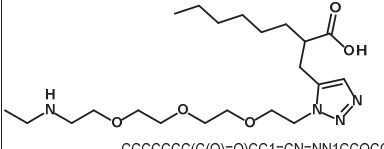
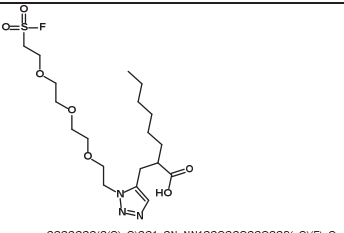
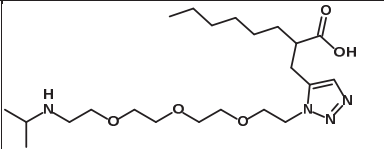
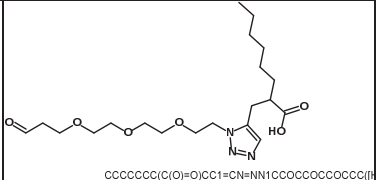
|      |                                                                                                                                                   |      |                                                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| 2779 |                                                                  | 2786 |    |
| 2780 | <br><chem>CCCCC(C(C(=O)O)O)CC1=CN(N=1)CCOCCOCCOCCN</chem>        | 2787 |    |
| 2781 | <br><chem>OC(C(C1=CC=CC=C1)C(=O)O)CC1=CN(N=1)CCOCCOCCOCCN</chem> | 2788 |    |
| 2782 | <br><chem>OC(C(C1CCCCC1)C(=O)O)CC1=CN(N=1)CCOCCOCCOCCN</chem>   | 2789 |   |
| 2783 | <br><chem>OC(C(C1CCCCO1)C(=O)O)CC1=CN(N=1)CCOCCOCCOCCN</chem>  | 2790 |  |
| 2784 | <br><chem>OC(C(C1CCC1)C(=O)O)CC1=CN(N=1)CCOCCOCCOCCN</chem>    | 2791 |  |
| 2785 | <br><chem>OC(C(C1CCC1)C(=O)O)CC1=CN(N=1)CCOCCOCCOCCN</chem>    | 2792 |  |

FIGURE 5R

|      |                                                                                                                                                      |      |                                                                                                                                                      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2793 | <br><chem>OC(C1CN1CCOCC1)CC2=CN(N=N2)CCOCCOCCOCCN)=O</chem>         | 2800 | <br><chem>OC(C1CN1CCOCC1)CC2=CN(N=N2)CCOCCOCCOCCN)=O</chem>        |
| 2794 | <br><chem>CCCCCCC(C)(C(O)=O)CC1=CN(N=N1)CCOCCOCCOCCN)=O</chem>      | 2801 | <br><chem>OC(C1CN1CCOCC1)CC2=CN(N=N2)CCOCCOCCOCCN)=O</chem>        |
| 2795 | <br><chem>CCCCCCC(S(=O)(=O)(O)=O)CC1=CN(N=N1)CCOCCOCCOCCN)=O</chem> | 2802 | <br><chem>OC(C1CN1CCOCC1)CC2=CN(N=N2)CCOCCOCCOCCN)=O</chem>        |
| 2796 | <br><chem>CCCCCCC(P(O)(O)=O)CC1=CN(N=N1)CCOCCOCCOCCN)=O</chem>      | 2803 | <br><chem>OC(C1CN1CCOCC1)CC2=CN(N=N2)CCOCCOCCOCCN)=O</chem>       |
| 2797 | <br><chem>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCOCCOCCN)=O</chem>         | 2804 | <br><chem>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCOCCOCCS(=O)(Cl)=O</chem> |
| 2798 | <br><chem>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCOCCOCCN)=O</chem>         | 2805 | <br><chem>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCOCCOCCS(=O)(F)=O</chem>  |
| 2799 | <br><chem>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCOCCOCCN)=O</chem>         | 2806 | <br><chem>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCOCCOCCS(=O)(F)=O</chem>  |

**FIGURE 5S**

[illegible]

FIGURE 5T

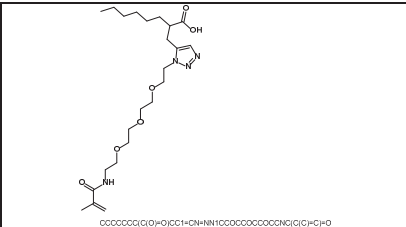
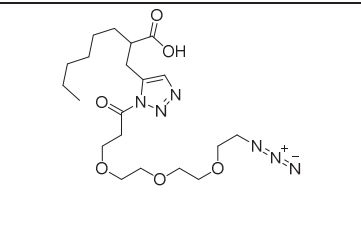
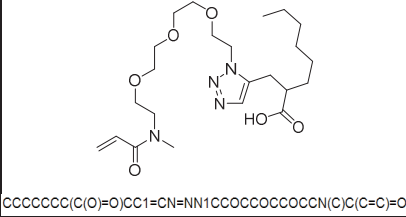
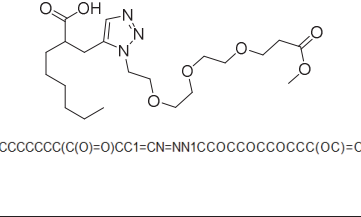
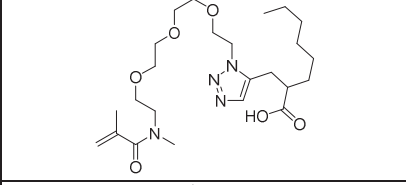
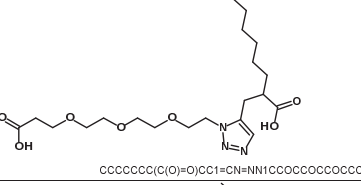
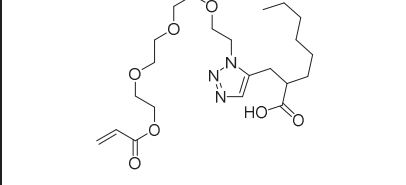
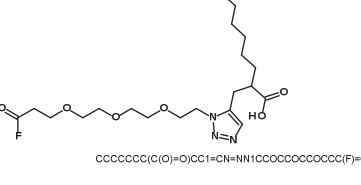
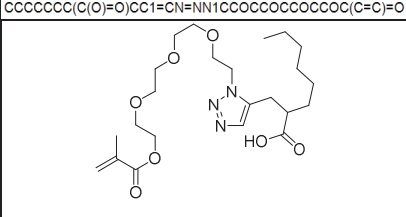
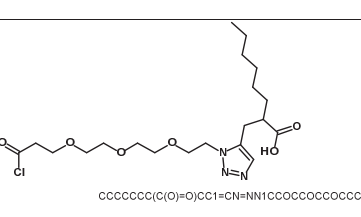
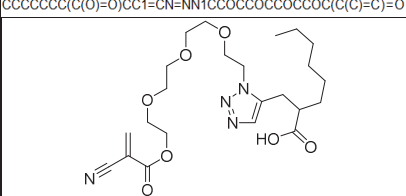
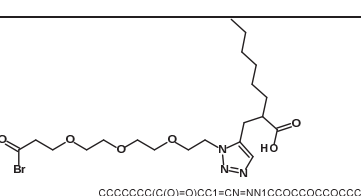
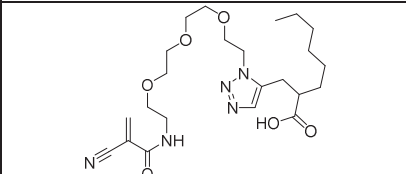
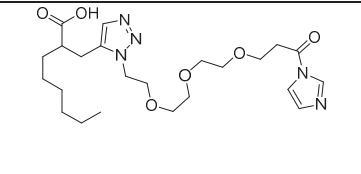
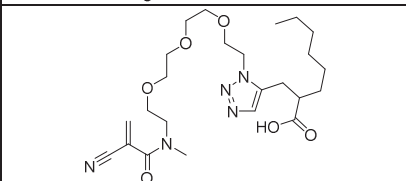
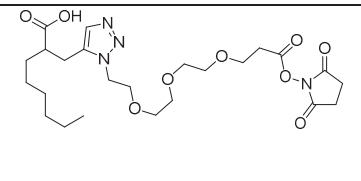
|      |                                                                                                                                                         |      |                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2819 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem>   | 2827 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem>   |
| 2820 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem>   | 2828 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem>   |
| 2821 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem>   | 2829 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem>   |
| 2822 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem>  | 2830 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem>  |
| 2823 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem> | 2831 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem> |
| 2824 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem> | 2832 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem> |
| 2825 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem> | 2833 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem> |
| 2826 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem> | 2834 | <br><chem>CCCCCCCC(C(=O)O)CC1=CN=NN1CCOCCOCCOCC(C(=O)O)C(=O)O</chem> |

FIGURE 5U

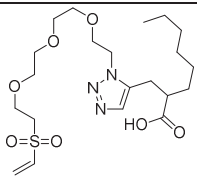
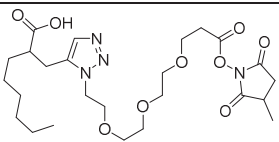
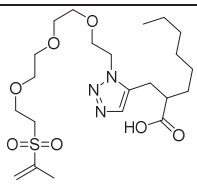
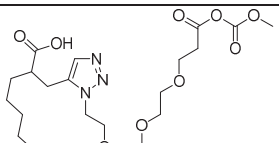
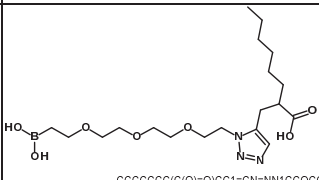
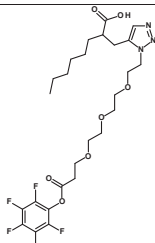
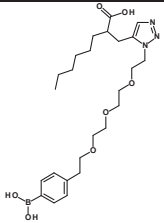
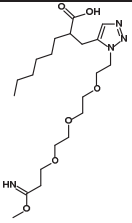
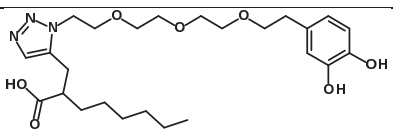
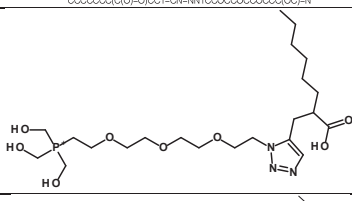
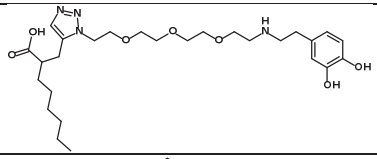
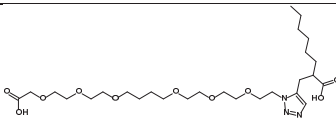
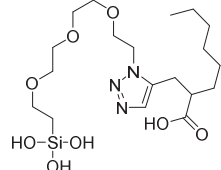
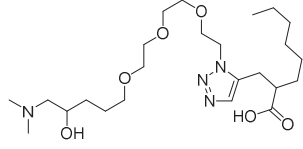
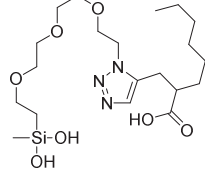
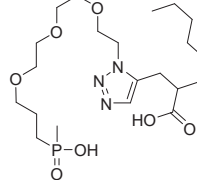
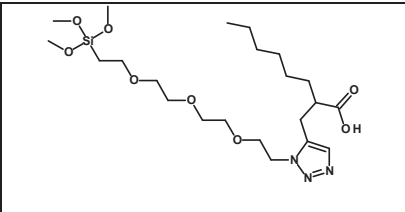
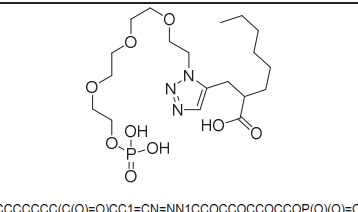
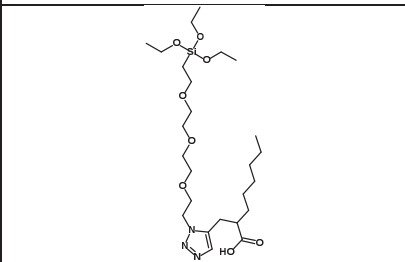
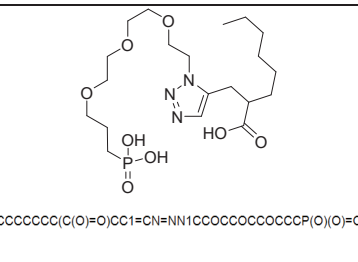
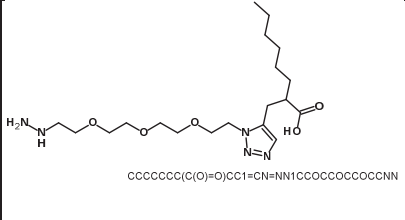
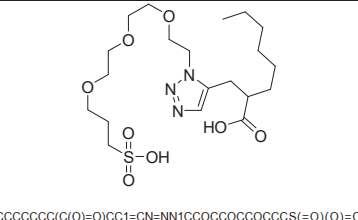
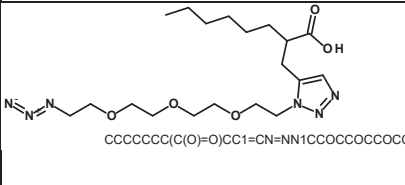
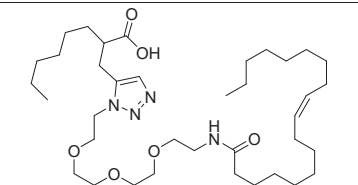
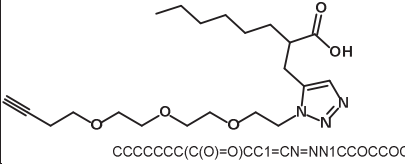
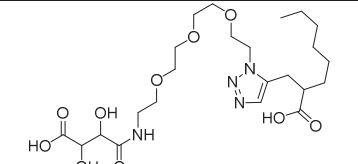
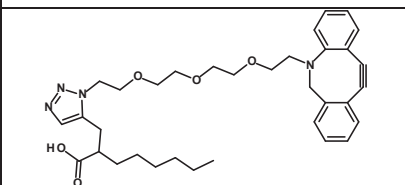
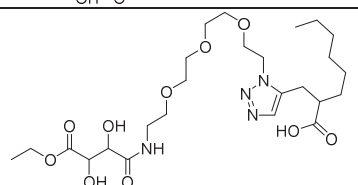
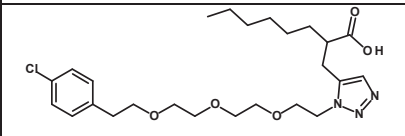
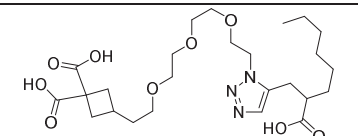
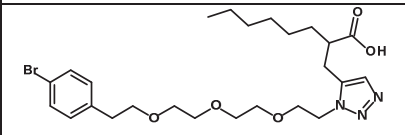
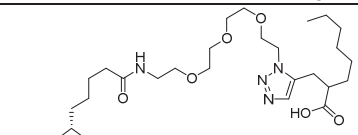
|      |                                                                                                                                                          |      |                                                                                                                                                           |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2835 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCS(C=C)(=O)=O</chem>      | 2843 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(OC(=O)=O)=O</chem>   |
| 2836 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(OC(=O)=O)=O</chem>   | 2844 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(OC(=O)=O)=O</chem>   |
| 2837 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCCB(O)(O)O</chem>       | 2845 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(OC(=O)=O)=O</chem>  |
| 2838 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(OC(=O)=O)=O</chem>  | 2846 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(OC(=O)=O)=O</chem>  |
| 2839 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(OC(=O)=O)=O</chem> | 2847 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(OC(=O)=O)=O</chem> |
| 2840 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(OC(=O)=O)=O</chem> | 2848 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(OC(=O)=O)=O</chem> |
| 2841 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC[Si](O)(O)O</chem>  | 2849 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC(CN(C)C)O</chem>    |
| 2842 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCC[Si](O)(C)O</chem>  | 2850 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOCCP(O)(C)O</chem>     |

FIGURE 5V

|      |                                                                                                                                                     |      |                                                                                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2851 |                                                                    | 2859 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCOP(O)(O)=O</chem> |
| 2852 |                                                                    | 2860 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCCP(O)(O)=O</chem> |
| 2853 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCCN</chem>           | 2861 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCS(=O)(=O)O</chem> |
| 2854 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCN=[N+]=[N-]</chem> | 2862 |                                                                 |
| 2855 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCC#C</chem>         | 2863 |                                                                |
| 2856 |                                                                  | 2864 |                                                                |
| 2857 |                                                                  | 2865 |                                                                |
| 2858 |                                                                  | 2866 |                                                                |

**FIGURE 5W**

|      |                                        |      |  |
|------|----------------------------------------|------|--|
| 2867 |                                        | 2874 |  |
| 2868 | <br>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCO    | 2875 |  |
| 2869 | <br>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCO    | 2876 |  |
| 2870 | <br>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCO    | 2877 |  |
| 2871 |                                        | 2878 |  |
| 2872 | <br>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCOCCO | 2879 |  |
| 2873 | <br>CCCCCCC(C(O)=O)CC1=CN=NN1CCOCCOCCO | 2880 |  |

FIGURE 5X

|      |                                                             |      |                                                                |
|------|-------------------------------------------------------------|------|----------------------------------------------------------------|
| 2881 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCN=C</chem>   | 2888 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCNC(CS)=O</chem> |
| 2882 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCC2OC2</chem>  | 2889 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCNC(CS)=O</chem> |
| 2883 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCN=C</chem>   | 2890 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCN=C</chem>      |
| 2884 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCN=C</chem>   | 2891 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCCOCCOCCN=C</chem>      |
| 2885 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2=CC=C(C=C2)N</chem>   | 2892 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2CC(C2)CN</chem>          |
| 2886 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(C=C2)=CC=C2CCN</chem> | 2893 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCN</chem>                 |
| 2887 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(C=C2)=CC=C2CCO</chem> | 2894 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCCN</chem>                |

**FIGURE 5Y**

|      |                                                                |      |                                                                 |
|------|----------------------------------------------------------------|------|-----------------------------------------------------------------|
| 2895 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(C=C2)=CC=C2CCCCN</chem>  | 2903 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCCCN</chem>                |
| 2896 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(C=C2)=CC=C2C</chem>      | 2904 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCCCCN</chem>               |
| 2897 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(C=C2)=CC=C2C</chem>      | 2905 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CC</chem>                   |
| 2898 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(C=C2)=CC=C2CCOC</chem>   | 2906 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCGCCN</chem>             |
| 2899 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(C=C2)=CC=C2CCOC</chem>   | 2907 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCGCCGCCN</chem>          |
| 2900 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CC2=CC=C(C=C2)CN</chem>    | 2908 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCGCCGCCGCCN</chem>       |
| 2901 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(C)C2=CC=C(C=C2)CN</chem> | 2909 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCGCCGCCGCCGCCN</chem>    |
| 2902 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(C)C2=CC=C(C=C2)CN</chem> | 2910 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCGCCGCCGCCGCCGCCN</chem> |

FIGURE 5Z

|      |                                                          |      |                                                          |
|------|----------------------------------------------------------|------|----------------------------------------------------------|
| 2911 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> | 2919 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> |
| 2912 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> | 2920 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> |
| 2913 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> | 2921 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> |
| 2914 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> | 2922 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> |
| 2915 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> | 2923 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> |
| 2916 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> | 2924 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> |
| 2917 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> | 2925 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> |
| 2918 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> | 2926 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2(COC2)C(C=C</chem> |

FIGURE 5AA

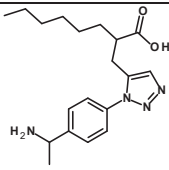
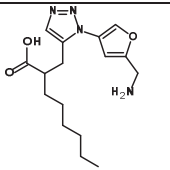
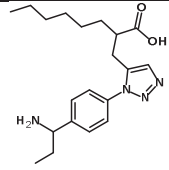
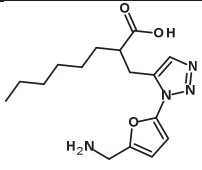
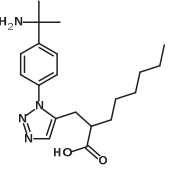
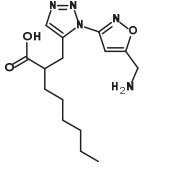
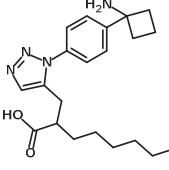
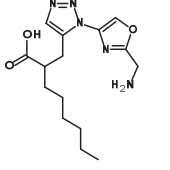
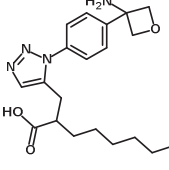
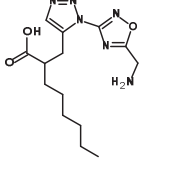
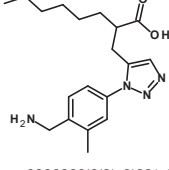
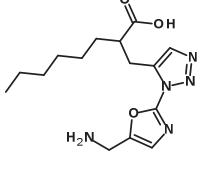
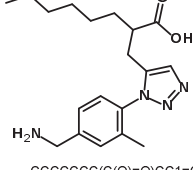
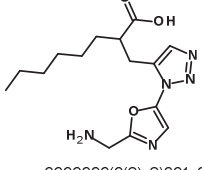
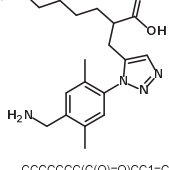
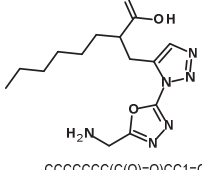
|      |                                                                                                                                                   |      |                                                                                                                                                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2927 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem>   | 2935 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem>   |
| 2928 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem>   | 2936 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem>   |
| 2929 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem>   | 2937 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem>   |
| 2930 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem>   | 2938 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem>   |
| 2931 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem>  | 2939 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem>  |
| 2932 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem> | 2940 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem> |
| 2933 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem> | 2941 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem> |
| 2934 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem> | 2942 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC=C(C(C)=C)C(C)N</chem> |

FIGURE 5BB

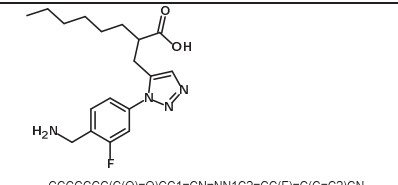
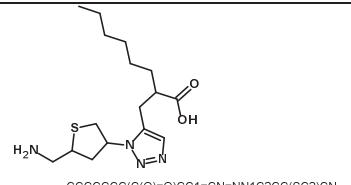
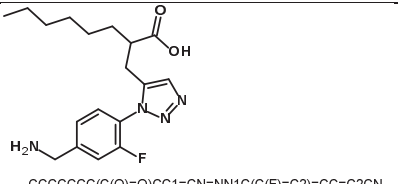
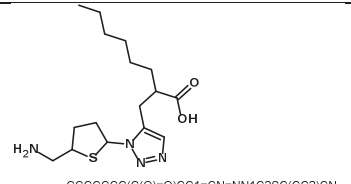
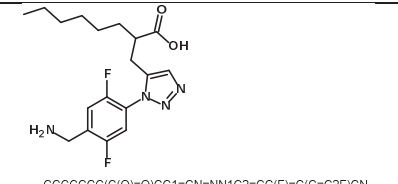
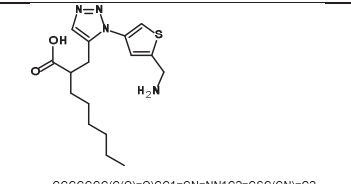
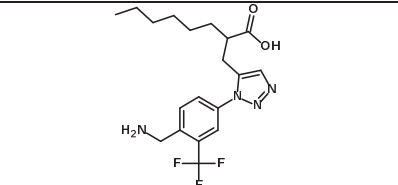
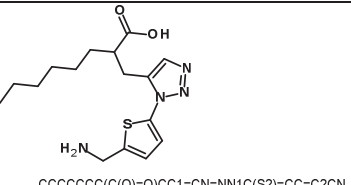
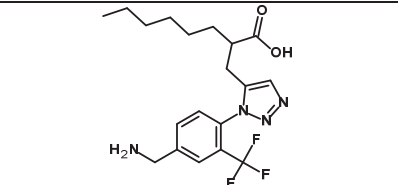
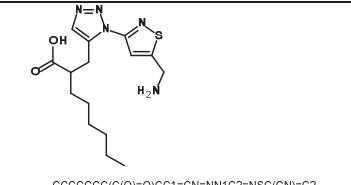
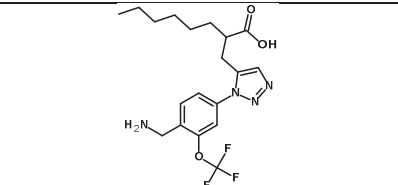
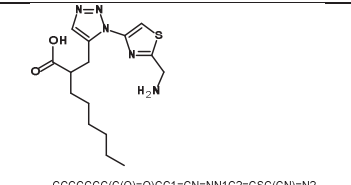
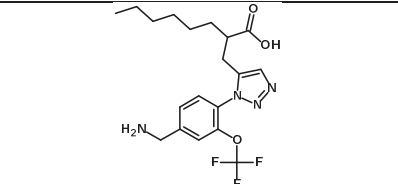
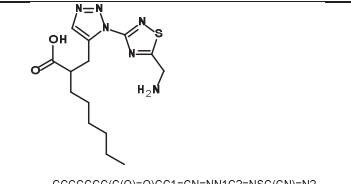
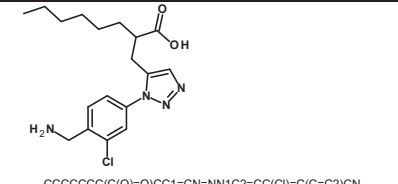
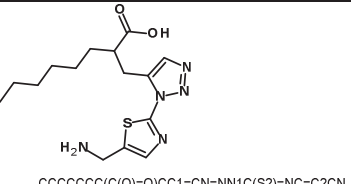
|      |                                                                                                                                                  |      |                                                                                                                                             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 2943 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC(F)=C(C=C2)CN</chem>    | 2951 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2SC(C2)CN</chem>      |
| 2944 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C(C(F)=C2)=CC=C2CN</chem>    | 2952 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2SC(C2)CN</chem>      |
| 2945 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC(F)=C(C=C2F)CN</chem>   | 2953 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC(CN)=C2</chem>    |
| 2946 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC(F)=C(C=C2F)CN</chem>   | 2954 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C(S2)=CC=C2CN</chem>   |
| 2947 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC(F)=C(C=C2F)CN</chem>  | 2955 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=NSC(CN)=C2</chem>  |
| 2948 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC(F)=C(C=C2F)CN</chem> | 2956 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=NSC(CN)=C2</chem> |
| 2949 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC(F)=C(C=C2F)CN</chem> | 2957 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=NSC(CN)=C2</chem> |
| 2950 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC(Cl)=C(C=C2)CN</chem> | 2958 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C(S2)=NC=C2CN</chem> |

FIGURE 5CC

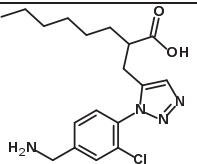
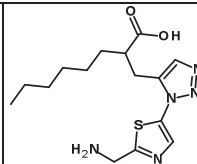
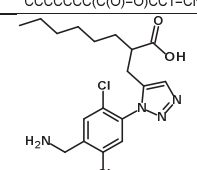
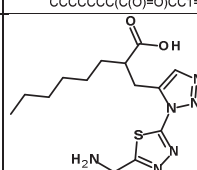
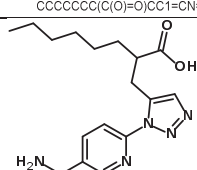
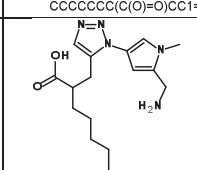
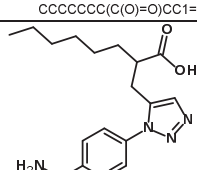
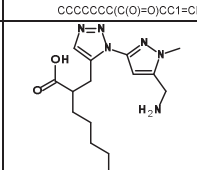
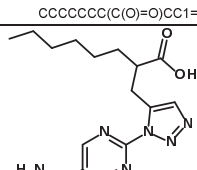
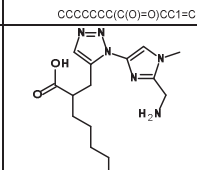
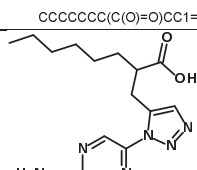
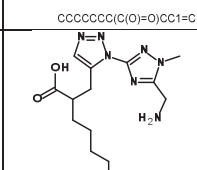
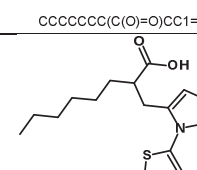
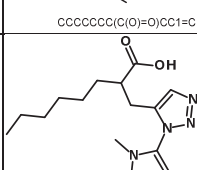
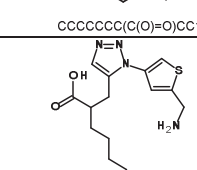
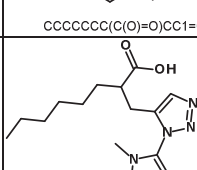
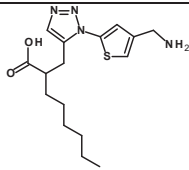
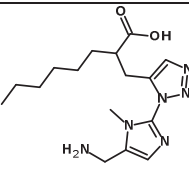
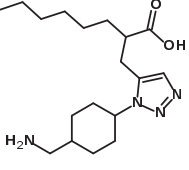
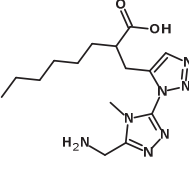
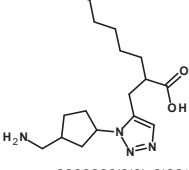
|      |                                                                                                                                                  |      |                                                                                                                                                |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 2959 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C(C(Cl)=C2)=CC=C2CN</chem>   | 2967 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C(S2)=CN=C2CN</chem>      |
| 2960 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CC(Cl)=C(C=C2Cl)CN</chem> | 2968 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C(S2)=NN=C2CN</chem>      |
| 2961 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=NC=C(C=C2)CN</chem>       | 2969 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CN(C)C(CN)=C2</chem>   |
| 2962 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CN=C(C=C2)CN</chem>       | 2970 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=NN(C)C(CN)=C2</chem>   |
| 2963 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=NC=C(C=N2)CN</chem>      | 2971 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CN(C)C(CN)=N2</chem>  |
| 2964 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C(N=C2)=CN=C2CN</chem>     | 2972 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=NN(C)C(CN)=N2</chem> |
| 2965 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C(S2)=CC=C2CN</chem>       | 2973 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C(N2C)=CC=C2CN</chem>   |
| 2966 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CS(CN)=C2</chem>        | 2974 | <br><chem>CCCCCCC(C(=O)O)CC1=CN=NN1C2=CS(CN)=C2</chem>     |

FIGURE 5DD

|      |                                                                                                                                           |      |                                                                                                                                             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 2975 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2=CC(CN)=CS2</chem> | 2983 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(N2C)=NC=C2CN</chem> |
| 2976 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2CCC(CC2)CN</chem>  | 2984 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C(N2C)=NN=C2CN</chem> |
| 2977 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1C2CC(CC2)CN</chem>   |      |                                                                                                                                             |

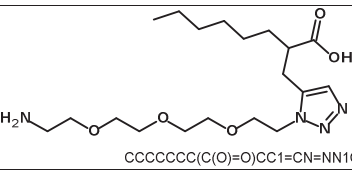
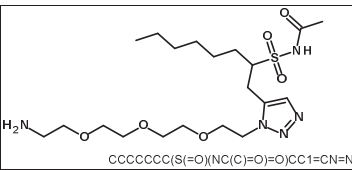
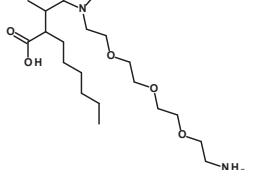
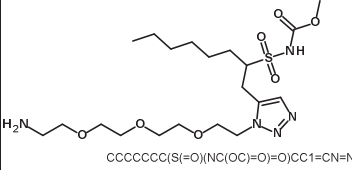
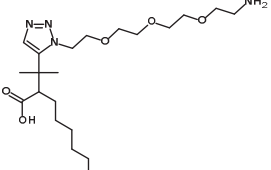
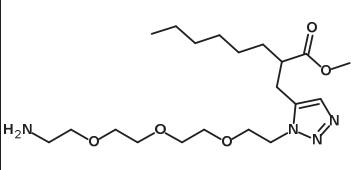
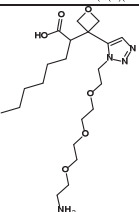
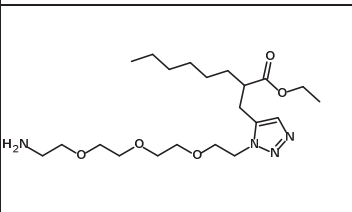
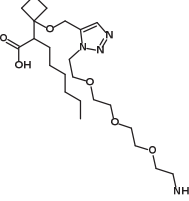
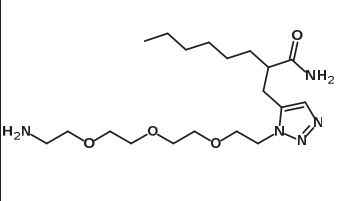
|      |                                                                                                                                                     |      |                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 2978 | <br><chem>CCCCCCC(C(=O)=O)CC1=CN=NN1CCOCC</chem>                  | 2985 | <br><chem>CCCCCCC(S(=O)(=O)NC(C)=O)CC1=CN=NN1</chem>   |
| 2979 | <br><chem>CCCCCCC(C(C)=CN=NN1CCOCCOCCOCCN)C(C(=O)=O)O</chem>     | 2986 | <br><chem>CCCCCCC(S(=O)(=O)NC(OC)=O)CC1=CN=NN1</chem> |
| 2980 | <br><chem>CCCCCCC(C(C)C)C1=CN=NN1CCOCCOCCOCCN)C(C(=O)=O)O</chem> | 2987 |                                                       |
| 2981 | <br><chem>CCCCCCC(C(C)C)C1=CN=NN1CCOCCOCCOCCN)C(C(=O)=O)O</chem> | 2988 |                                                       |
| 2982 | <br><chem>CCCCCCC(C(C)C)C1=CN=NN1CCOCCOCCOCCN)C(C(=O)=O)O</chem> | 2989 |                                                       |

FIGURE 5EE

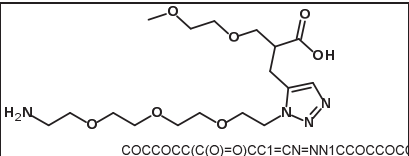
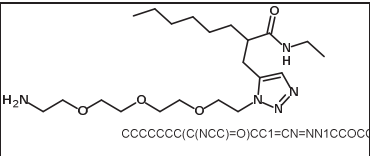
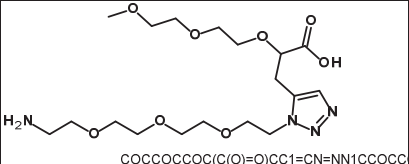
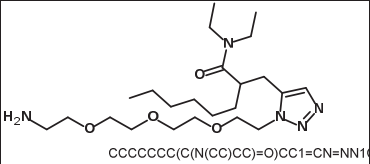
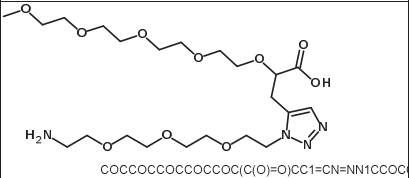
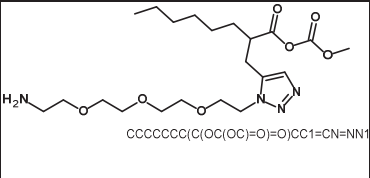
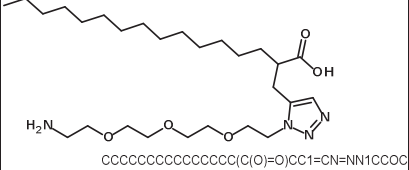
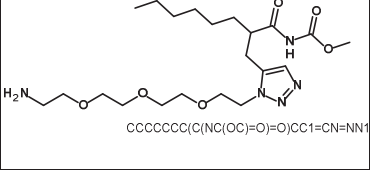
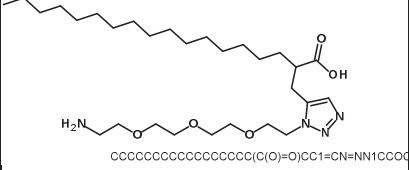
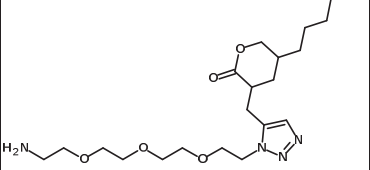
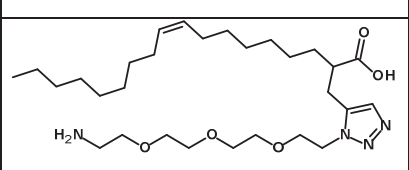
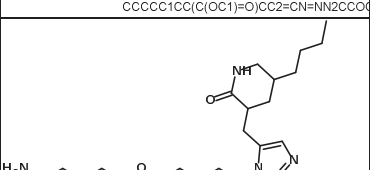
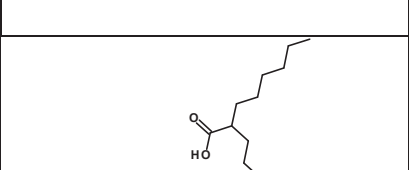
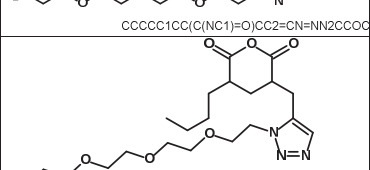
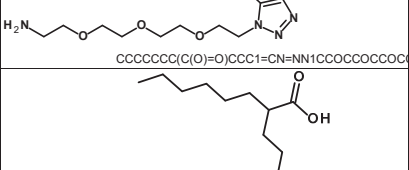
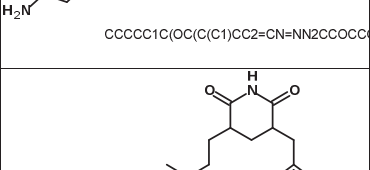
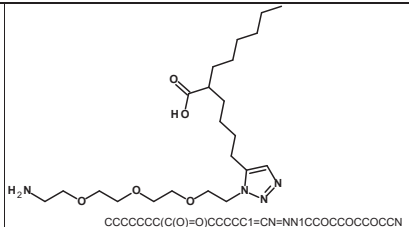
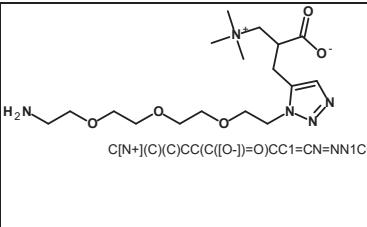
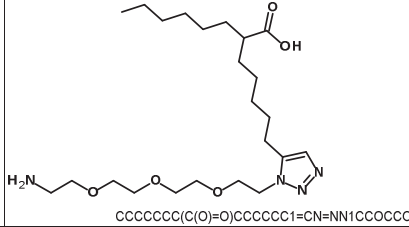
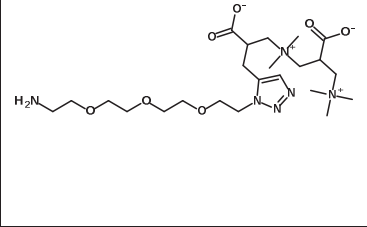
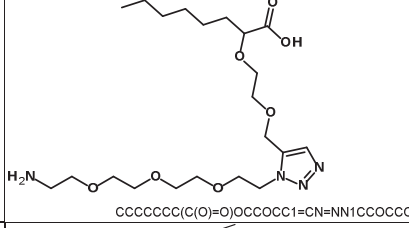
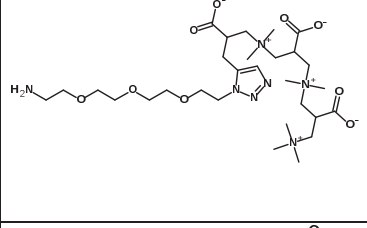
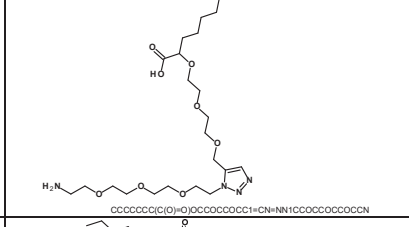
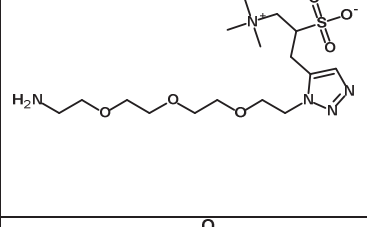
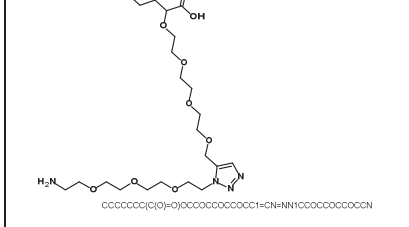
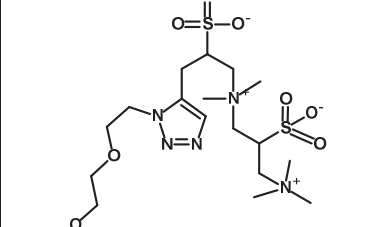
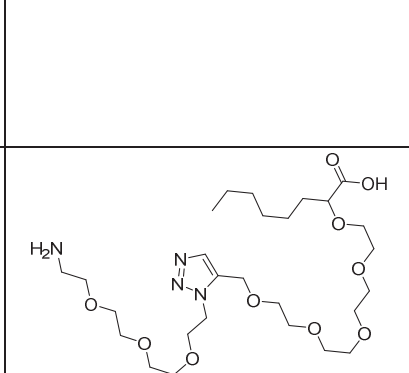
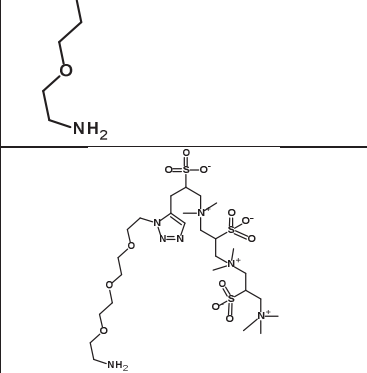
|      |                                                                                                                                   |      |                                                                                                                                              |
|------|-----------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 2990 | <br><chem>COCCOC(=O)CC1=CN=NN1CCOCCOCCN</chem>   | 2998 | <br><chem>CCCC(CC(C(NCC)=O)CC1=CN=NN1CCOCCOCCN</chem>      |
| 2991 | <br><chem>COCCOC(=O)CC1=CN=NN1CCOCCOCCN</chem>   | 2999 | <br><chem>CCCC(CC(C(N(CO)CC)=O)CC1=CN=NN1CCOCCOCCN</chem>  |
| 2992 | <br><chem>COCCOC(=O)CC1=CN=NN1CCOCCOCCN</chem>   | 3000 | <br><chem>CCCC(CC(C(OC(=O)O)=O)CC1=CN=NN1CCOCCOCCN</chem>  |
| 2993 | <br><chem>COCCOC(=O)CC1=CN=NN1CCOCCOCCN</chem>   | 3001 | <br><chem>CCCC(CC(C(NC(OC)=O)=O)CC1=CN=NN1CCOCCOCCN</chem> |
| 2994 | <br><chem>COCCOC(=O)CC1=CN=NN1CCOCCOCCN</chem>  | 3002 | <br><chem>CCCC1CC(C(OC1)=O)CC2=CN=NN2CCOCCOCCN</chem>     |
| 2995 | <br><chem>COCCOC(=O)CC1=CN=NN1CCOCCOCCN</chem> | 3003 | <br><chem>CCCC1CC(C(NC1)=O)CC2=CN=NN2CCOCCOCCN</chem>    |
| 2996 | <br><chem>COCCOC(=O)CC1=CN=NN1CCOCCOCCN</chem> | 3004 | <br><chem>CCCC1C(OC(C1)CC2=CN=NN2CCOCCOCCN</chem>        |
| 2997 | <br><chem>COCCOC(=O)CC1=CN=NN1CCOCCOCCN</chem> | 3005 | <br><chem>CCCC1C(NC(C1)CC2=CN=NN2CCOCCOCCN</chem>        |

FIGURE 5FF

|      |                                                                                                                                                        |      |                                                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------|
| 3006 | <br><chem>CCCCCCC(C(=O)O)CCCCC1=CN=NN1CCOCCOCCOCCN</chem>             | 3012 | <br><chem>C[N+](C)(C)CC(C([O-])=O)CC1=CN=NN1C</chem> |
| 3007 | <br><chem>CCCCCCC(C(=O)O)CCCCC1=CN=NN1CCOCCO</chem>                   | 3013 |                                                      |
| 3008 | <br><chem>CCCCCCC(C(=O)O)OCCOCC1=CN=NN1CCOCCO</chem>                  | 3014 |                                                      |
| 3009 | <br><chem>CCCCCCC(C(=O)O)OCCOCCOCC1=CN=NN1CCOCCOCCOCCN</chem>        | 3015 |                                                     |
| 3010 | <br><chem>CCCCCCC(C(=O)O)OCCOCCOCCOCC1=CN=NN1CCOCCOCCOCCOCCN</chem> | 3016 |                                                    |
| 3011 |                                                                     | 3017 |                                                    |

**FIGURE 5GG**

[illegible]

FIGURE 5HH

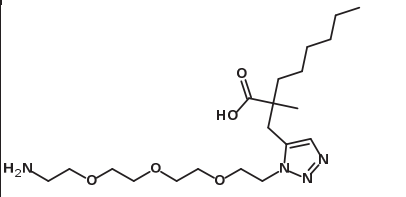
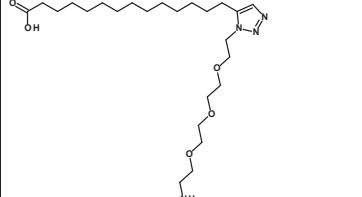
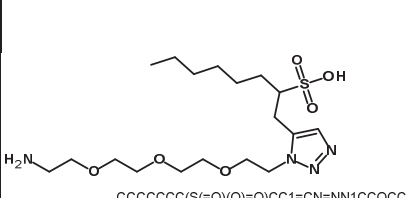
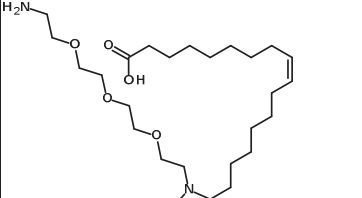
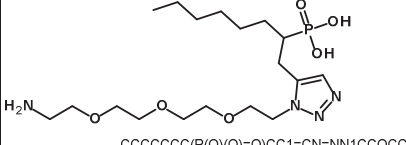
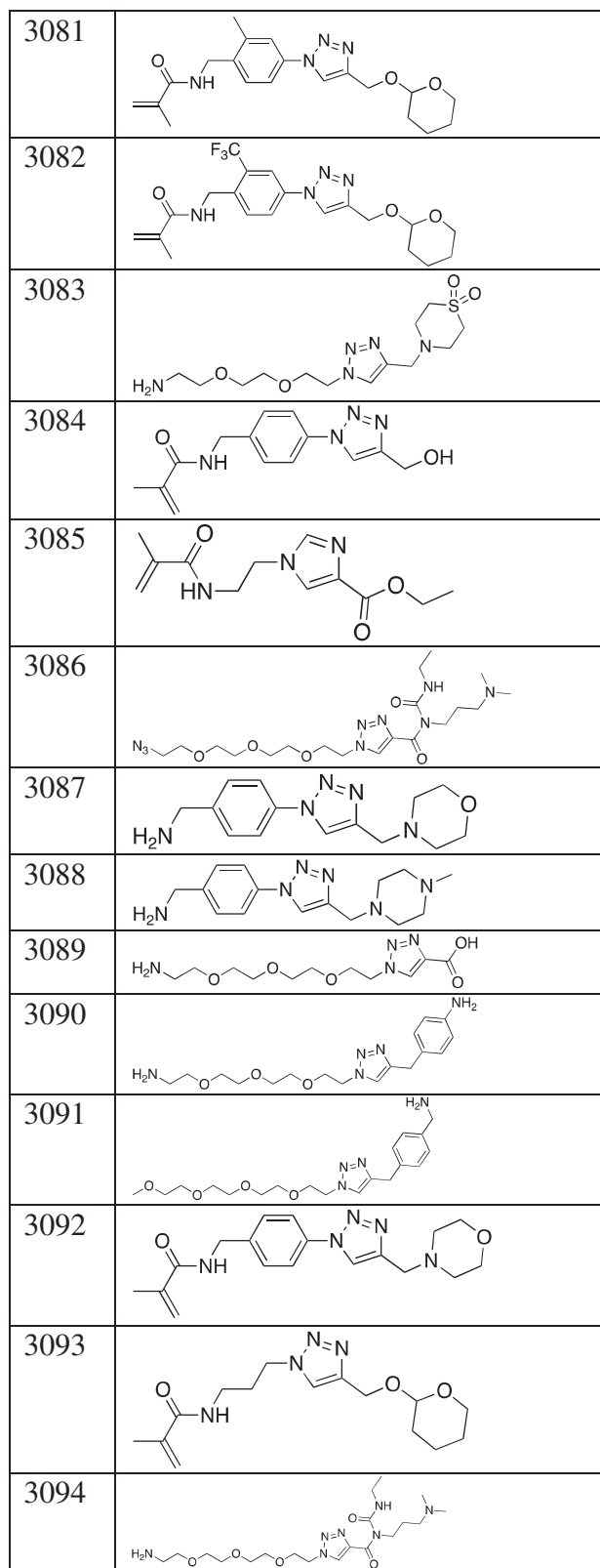
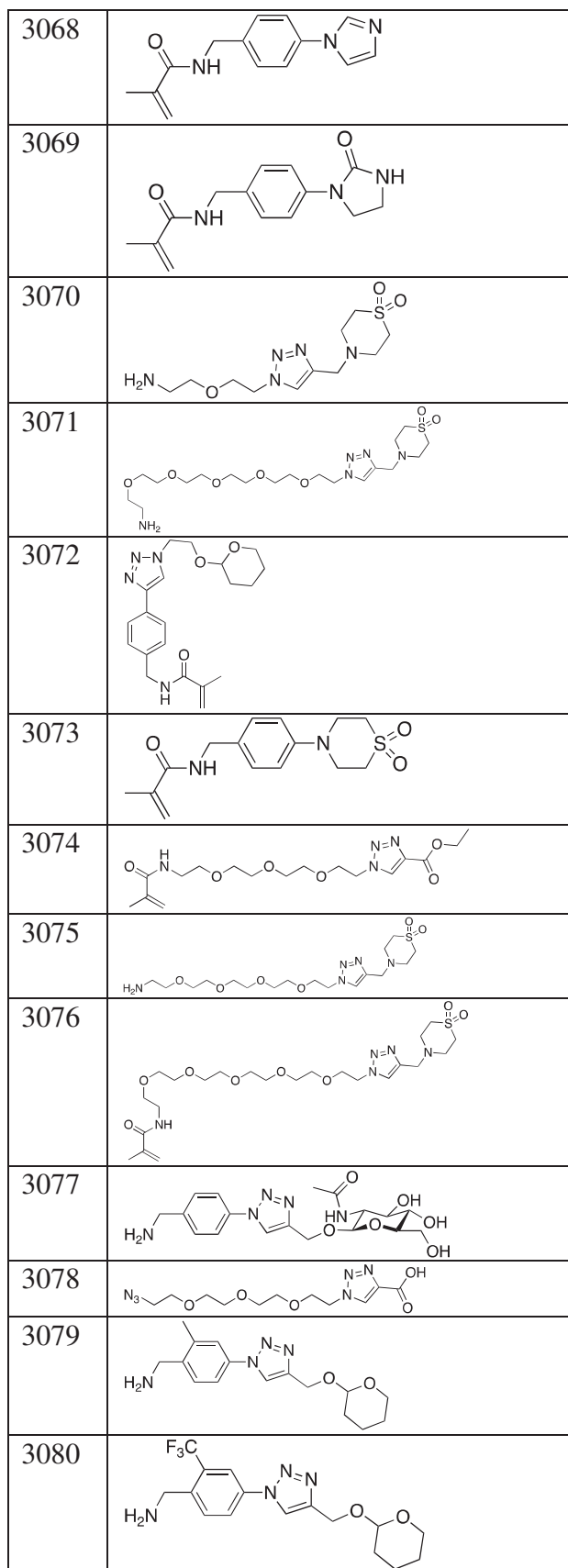
|      |                                                                                                                                     |      |                                                                                                                                          |
|------|-------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------|
| 3032 |  <chem>CCCCCCC(C)(C(=O)=O)CC1=CN=NN1CCOCCN</chem>  | 3035 |  <chem>OC(CCCCCC(C)(C(=O)=O)CC1=CN=NN1CCOCCN)=O</chem> |
| 3033 |  <chem>CCCCCCC(S(=O)(=O)(O)CC1=CN=NN1CCOCCN</chem> | 3036 |  <chem>OC(CCCCCC(C)(C(=O)=O)CC1=CN=NN1CCOCCN)=O</chem> |
| 3034 |  <chem>CCCCCCC(P(=O)(O)=O)CC1=CN=NN1CCOCCN</chem>  |      |                                                                                                                                          |

FIGURE 6A

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FIGURE 6B



**FIGURE 6C**

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FIGURE 6D

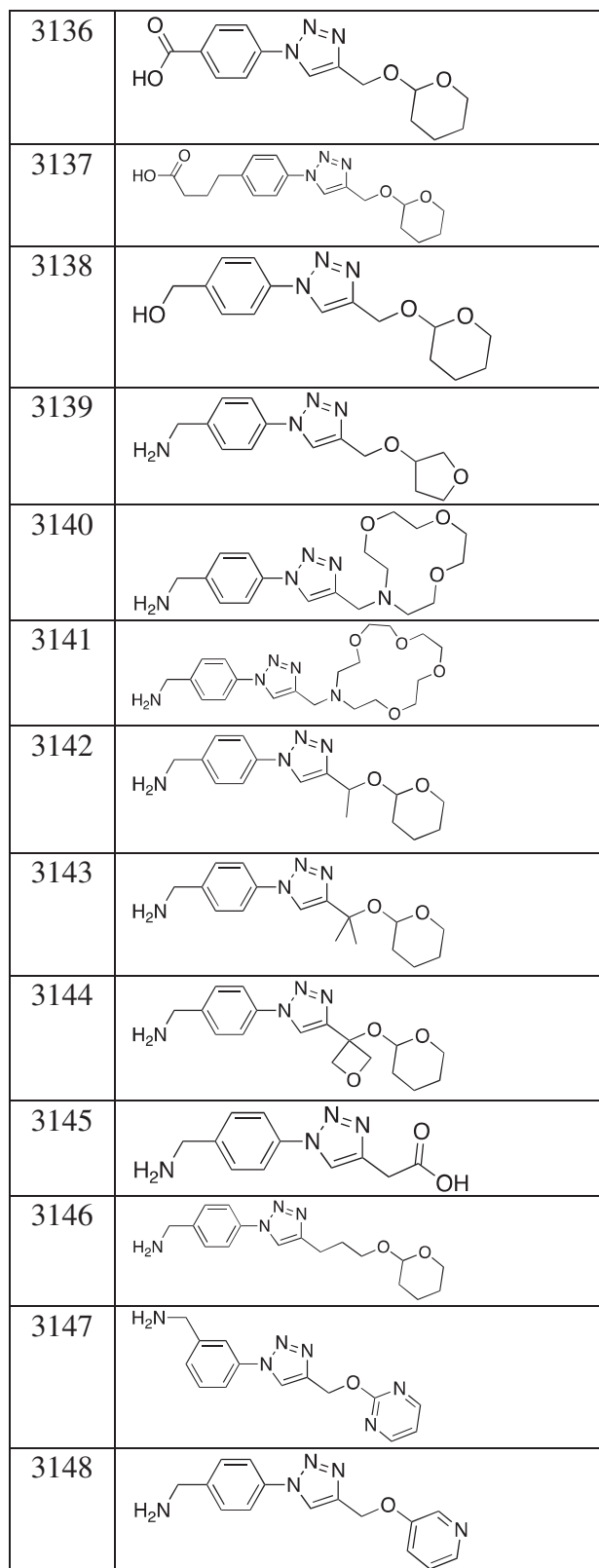
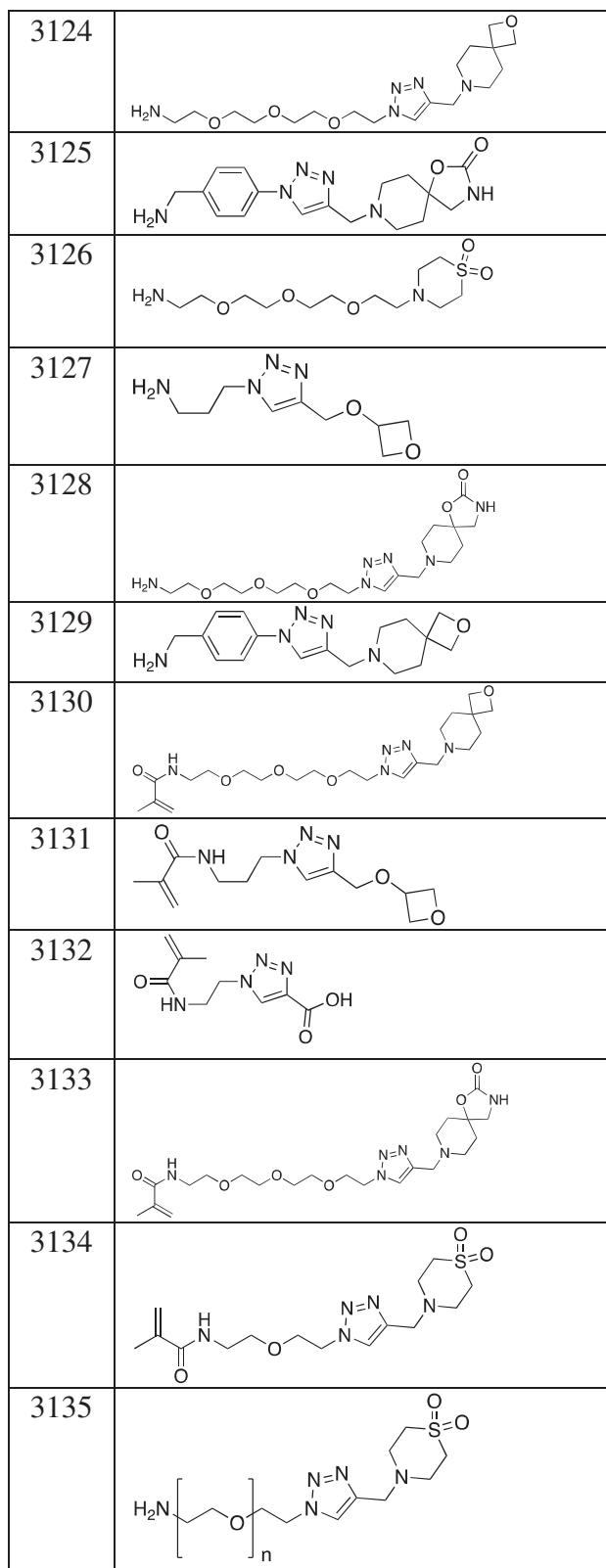


FIGURE 6E

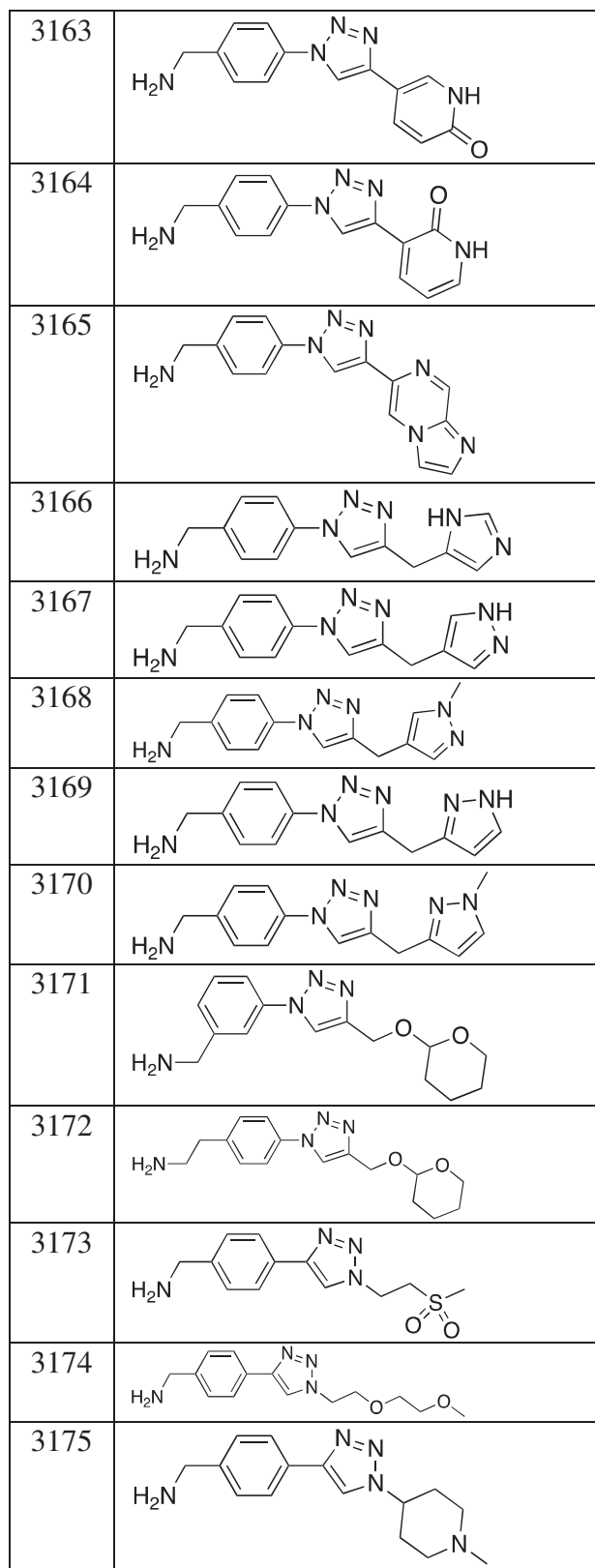
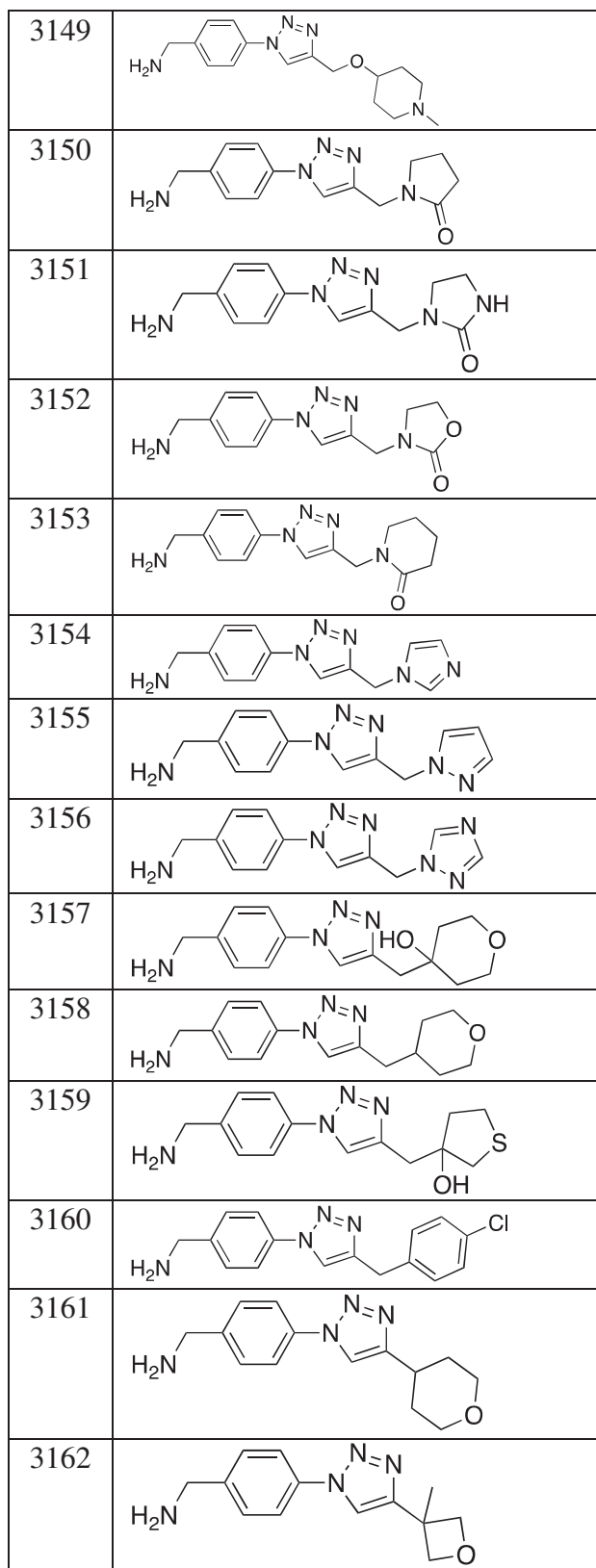


FIGURE 6F

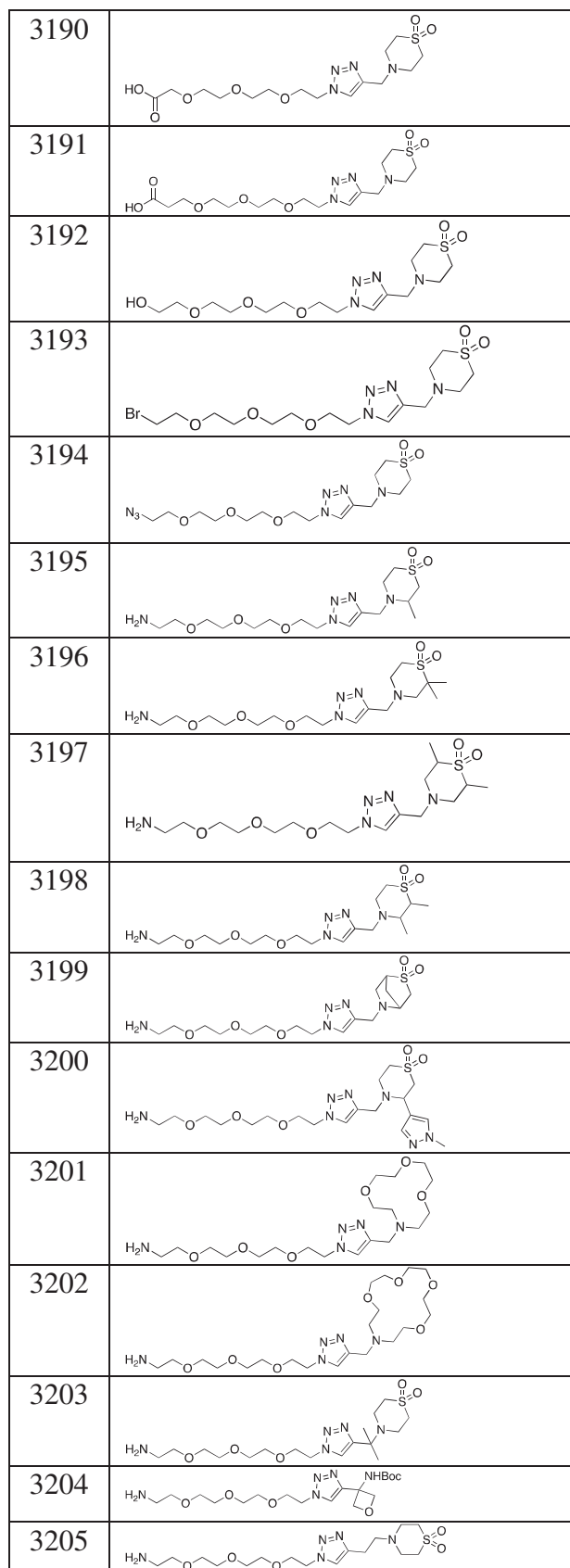
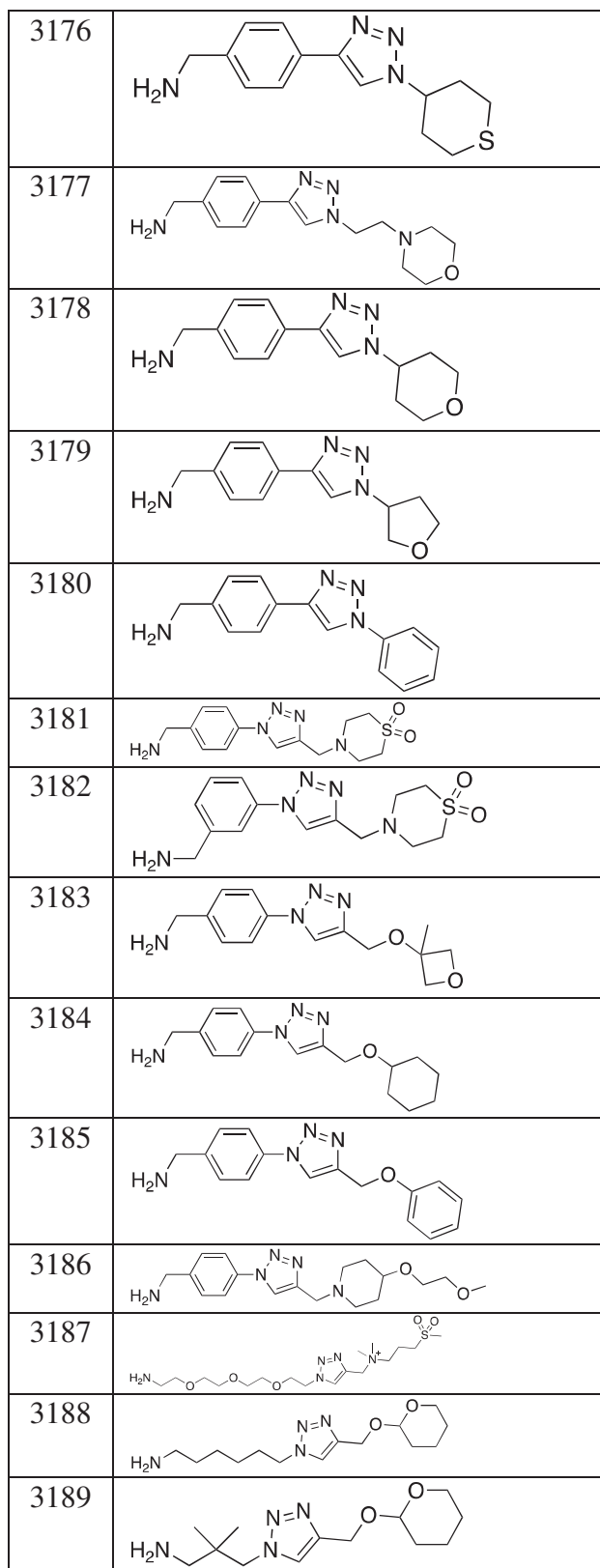


FIGURE 6G

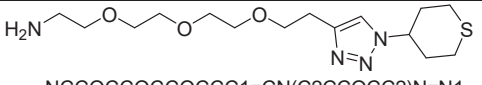
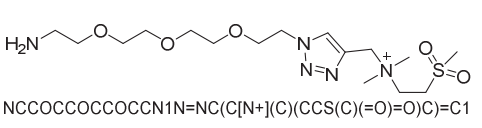
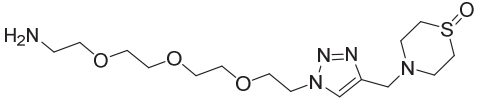
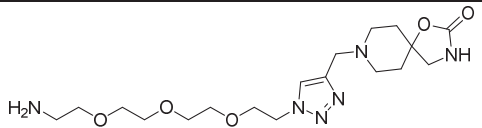
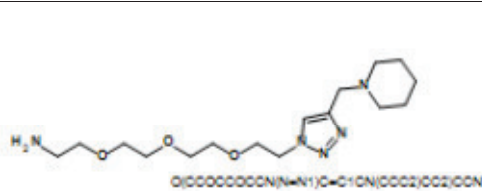
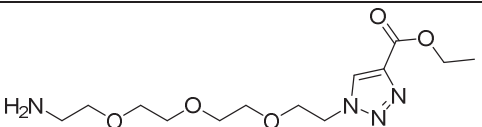
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FIGURE 6H

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FIGURE 6I

|      |                                                                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3273 |  <chem>NCCOCCOCCOCCOCC1=CN(C2CCOCC2)N=N1</chem>                              |
| 3274 |  <chem>NCCOCCOCCOCCOCCOCCN1N=NC(C[N+](C)(CCS(C)(=O)=O)C)=C1</chem>           |
| 3275 |  <chem>NCCOCCOCCOCCOCCOCCN1N=NC(C2CCOCC2)N=N1</chem>                         |
| 3276 |  <chem>NCCOCCOCCOCCOCCOCCN1N=NC(C2CCOCC2)N=N1</chem>                         |
| 3277 |  <chem>O(CCCOCCOCCOCCOCCOCCN1N=NC(C2CCOCC2)N=N1)C=C1CN(CCC2)CC2(CCN</chem> |
| 3278 |  <chem>NCCOCCOCCOCCOCCOCCN1N=NC(C2CCOCC2)N=N1</chem>                       |

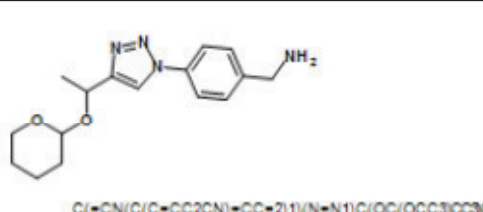
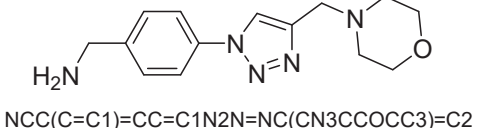
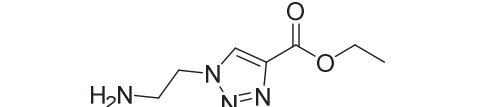
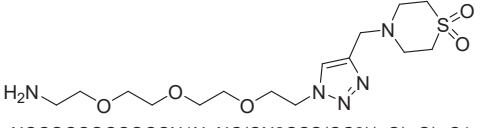
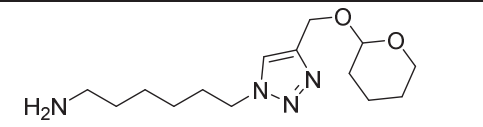
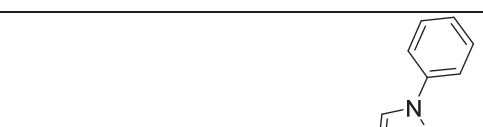
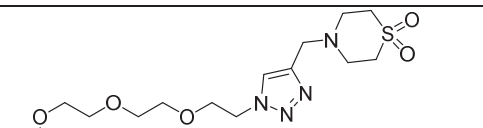
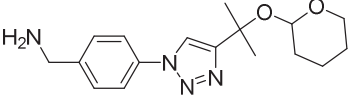
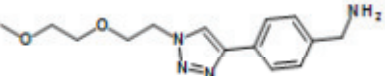
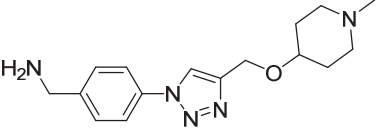
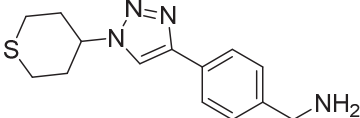
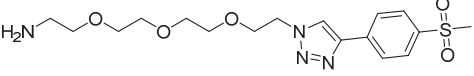
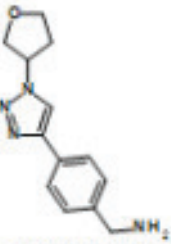
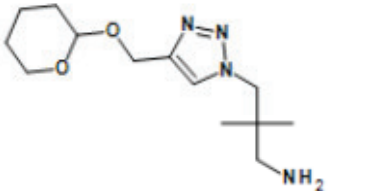
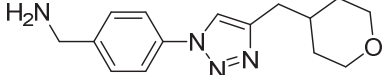
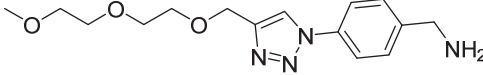
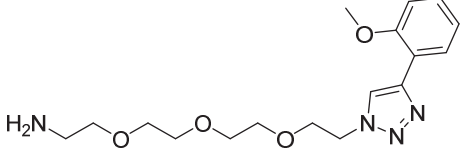
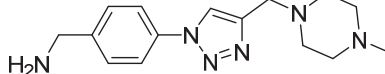
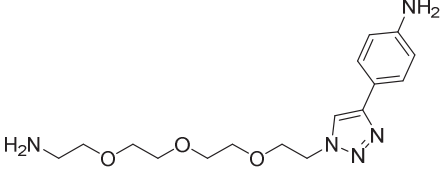
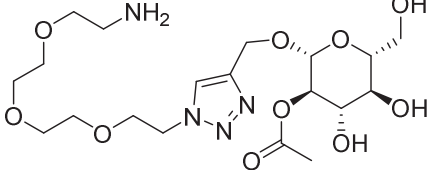
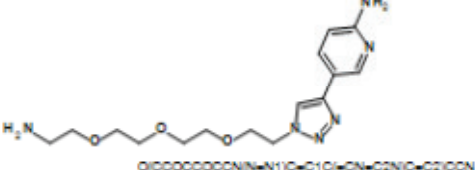
|      |                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 3279 |  <chem>C(C=CN(C(C=CC2CN)=CC=2)1)(N=N1)C(OC(CCC3)CC3)C</chem>   |
| 3280 |  <chem>NCC(C=C1)=CC=C1N2N=NC(CN3CCOCC3)=C2</chem>              |
| 3281 |  <chem>NCCOCCOCCOCCOCCOCCN1N=NC(C2CCOCC2)N=N1</chem>           |
| 3282 |  <chem>NCCOCCOCCOCCOCCOCCN1N=NC(C2CCOCC2)N=N1</chem>           |
| 3283 |  <chem>NCCOCCOCCOCCOCCOCCN1N=NC(C2CCOCC2)N=N1</chem>         |
| 3284 |  <chem>NCCOCCOCCOCCOCCOCCN1N=NC(C2CCOCC2)N=N1</chem>         |
| 3285 |  <chem>NCCOCCOCCOCCOCCOCCN1N=NC(C2CCOCC2)N=N1</chem>         |
| 3286 |  <chem>O=S(CCN1CC2=CN(N=N2)CCOCCOCCOCCOCCOCCN)(CC1)=O</chem> |

FIGURE 6J

|      |                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 3287 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(C(C)(C)OC3CCCCO3)=C2</chem>      |
| 3288 | <br><chem>C(-C(N=1)C(C=CC2CN)=CC=2)N(N1)CCOCCOCC</chem>          |
| 3290 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(COC3CCN(C)CC3)=C2</chem>         |
| 3292 | <br><chem>NCC(C=C1)=CC=C1C(N=N2)=CN2C3CCSCC3</chem>             |
| 3293 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC=C(S(C)(=O)O)C=C2)=C1</chem> |
| 3294 | <br><chem>O(CO1)O(C1)N(C=C2O(C=CC3CN)=CC=3)N=C2</chem>         |
| 3295 | <br><chem>CC(CN)(CN(N=1)C=C1COC(CCC2)OC2)C</chem>              |

|      |                                                                                                                                            |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 3296 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(CC3CCOCC3)=C2</chem>     |
| 3297 | <br><chem>COCCOCCOCC1=CN(C2=CC=C(CN)C=C2)N=N1</chem>     |
| 3298 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC=CC=C2OC)=C1</chem>    |
| 3299 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(CN3CCN(C)CC3)=C2</chem> |
| 3300 | <br><chem>NCCOCCOCCOCCN1N=NC(C2=CC=C(N)C=C2)=C1</chem>  |
| 3301 |                                                        |
| 3302 | <br><chem>O(COCCOCCOCCN(N=1)C=C1C=CN=C2(C=CC3CN</chem> |

**FIGURE 6K**

[illegible]

**FIGURE 6L**

|      |                                                                 |
|------|-----------------------------------------------------------------|
| 3318 | <br><chem>OCCOCOCOCOCOCOCNC1=CN=C(C2=CC(=C(C=C2)O)COCC1)</chem> |
| 3319 | <br><chem>NCCOCCOCCOCCN1N=NC(N=C2)=CN3C2=NC=C3)=C1</chem>       |
| 3320 | <br><chem>C(C(=CC=C1C(=CN2C(CCO3)CC3)N=N2)C=C1)N</chem>         |
| 3321 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(CC3=CC=C(Cl)C=C3)=C2</chem>     |
| 3322 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(C3=CN(C)N=C3)=C2</chem>         |
| 3323 | <br><chem>OCCCCCCCNC(N1)C=C1C(=CN=C2)N=N2)CN</chem>             |
| 3324 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(CC(O)=O)=C2</chem>              |
| 3325 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(CN3N=CN=C3)=C2</chem>           |
| 3326 | <br><chem>C(=CC=C1C(=CN2C(=CC=C3)C=C3)N=N2)(C=C1)N</chem>       |
| 3327 | <br><chem>C=C(C=C1)C(=CN2C(=CC=C3)C=C3)N=N2)C=C1)N</chem>       |
| 3328 | <br><chem>NCCOCCOCCOCCN1N=NC(COCCN2CCS(CC2)(=O)=O)=C1</chem>    |
| 3329 | <br><chem>C(=CC=C1C(=CN2C(CCO3)CC3)N=N2)(C=C1)N</chem>          |

FIGURE 6M

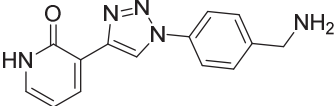
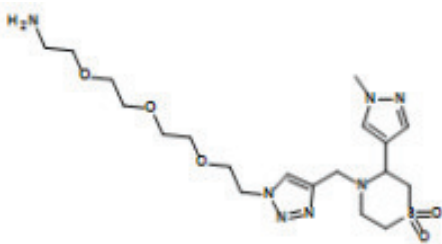
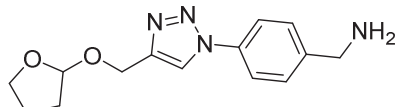
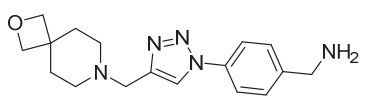
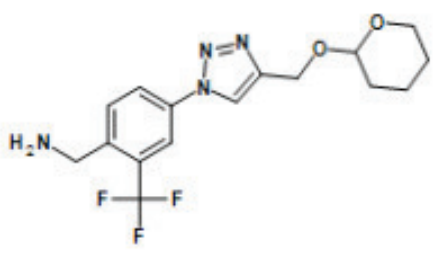
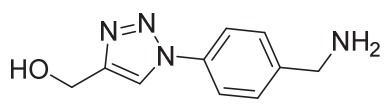
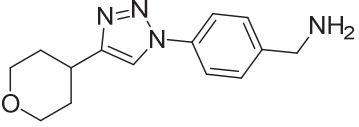
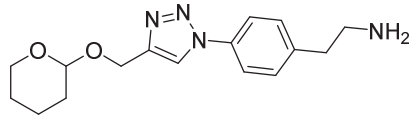
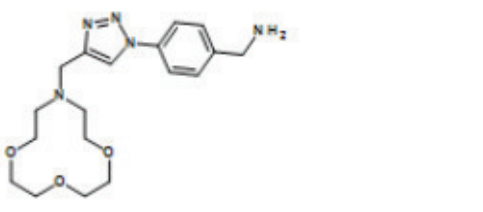
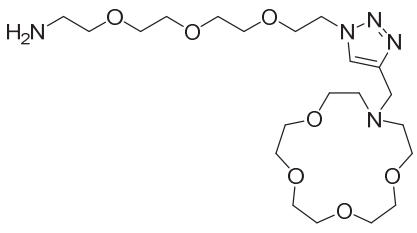
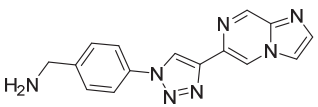
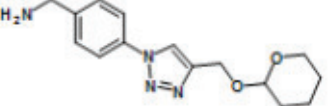
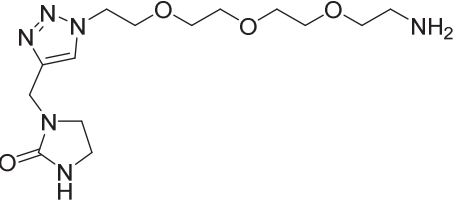
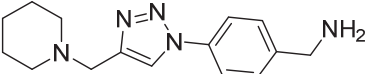
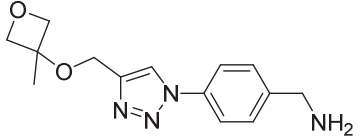
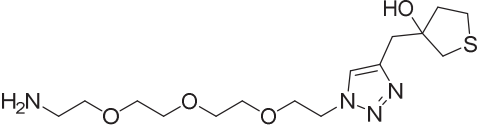
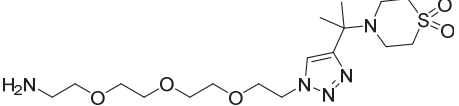
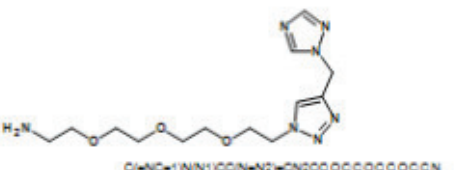
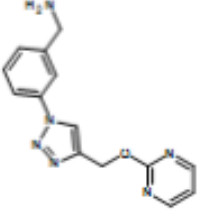
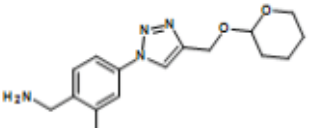
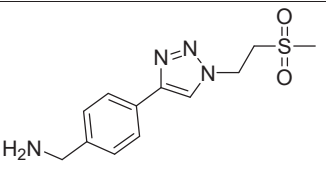
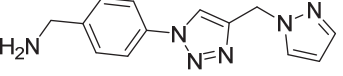
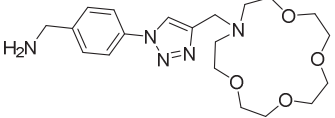
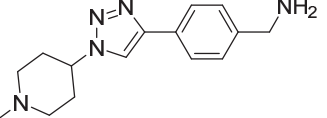
|      |                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 3330 |  <chem>NCC(C=C1)=CC=C1N2N=NC(C3=CC=CNC3=O)=C2</chem>            |
| 3331 |                                                                 |
| 3332 |  <chem>NCC(C=C1)=CC=C1N2N=NC(COC3OCCCC3)=C2</chem>              |
| 3333 |  <chem>NCC(C=C1)=CC=C1N2N=NC(CN3CCC4(COC4)CC3)=C2</chem>      |
| 3334 |                                                               |
| 3335 |  <chem>NCC(C=C1)=CC=C1N2N=NC(CO)=C2</chem>                    |
| 3336 |  <chem>NCC(C=C1)=CC=C1N2N=NC(C3CCOCC3)=C2</chem>              |
| 3337 |  <chem>NCCC(C=C1)=CC=C1N2N=NC(COC3OCCCC3)=C2</chem>            |
| 3338 |  <chem>C/N(COCCCC2(CO(CN1C(=CC=C3CN)C=C3)N=N1)COCOC2</chem>   |
| 3339 |  <chem>NCCOCCOCCOCCN1N=NC(CN2CCOCCOCCOCCOCC2)=C1</chem>      |
| 3340 |  <chem>NCC(C=C1)=CC=C1N2N=NC(C(N=C3)=CN4C3=NC=C4)=C2</chem> |

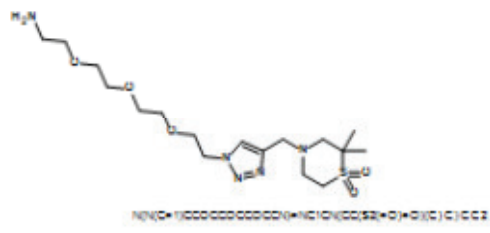
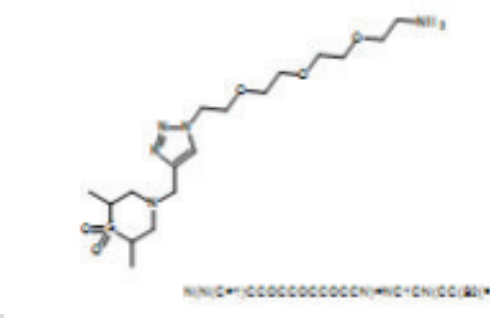
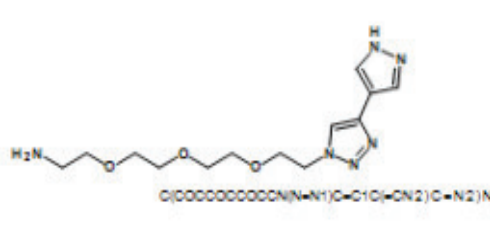
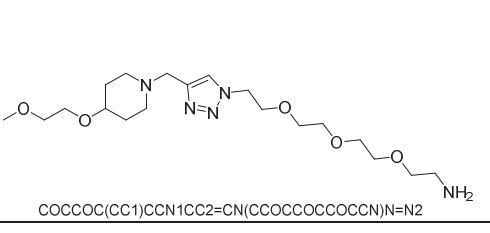
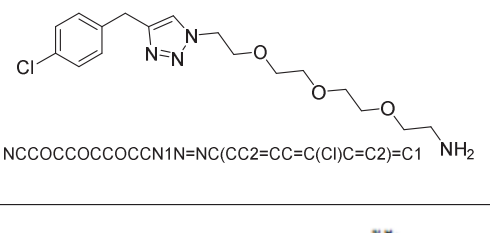
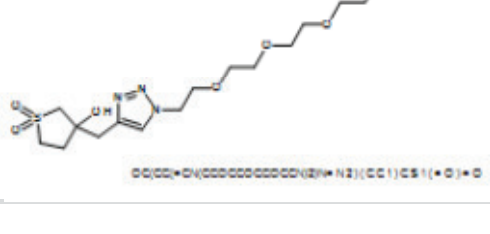
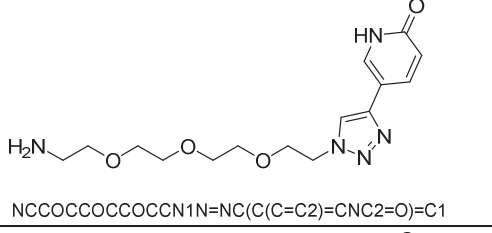
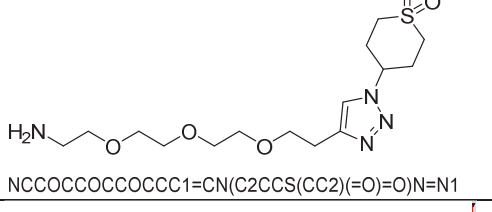
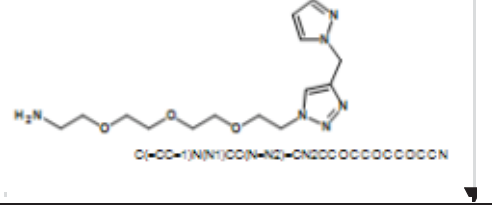
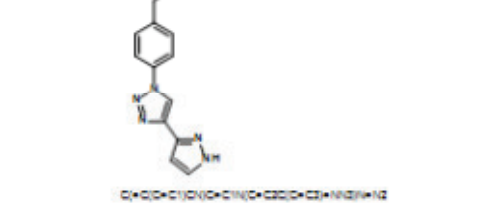
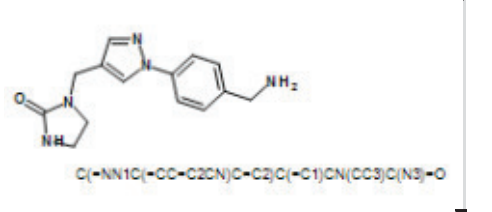
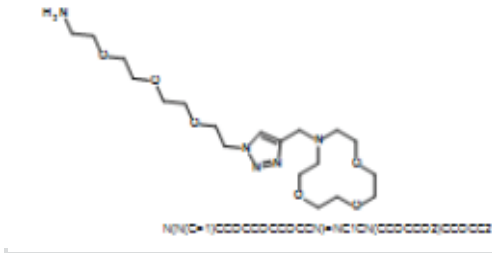
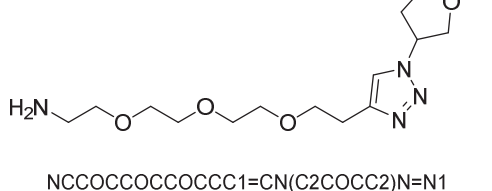
FIGURE 6N

|      |                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 3341 | <br><chem>C1=CC=C(C1CN)C=C2N1C=CCN1C=C2C</chem>                   |
| 3342 | <br><chem>NCC(=CC=C1N(N=N2)C=C2COC(CCC3)OC3)C=C1</chem>           |
| 3343 | <br><chem>NCCOCCOCCOCCN1N=NC(CN2C(NCC2)=O)=C1</chem>             |
| 3344 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(CN3CCCCC3)=C2</chem>            |
| 3345 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(COC3(C)COC3)=C2</chem>          |
| 3346 | <br><chem>NCCOCCOCCOCCN1N=NC(CC2(O)CSCC2)=C1</chem>             |
| 3347 | <br><chem>NCCOCCOCCOCCN1N=NC(C(C)(C)N2CCS(CC2)(=O)=O)=C1</chem>  |
| 3348 | <br><chem>C1=CC=C(C1CN)C=C2N1C=CCN1C=C2C</chem>                  |
| 3349 | <br><chem>N1C=CC=C(C1CN)C=C2N1C=CCN1C=C2C</chem>                |
| 3350 | <br><chem>C1=CC=C(C1CN)C=C2OCC(CCC3)OC3N=N2C(C=C1)CN</chem>     |
| 3351 | <br><chem>NCC(C=C1)=CC=C1C(N=N2)=CN2CCS(C)(=O)=O</chem>       |
| 3352 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(CN3C=CC=N3)=C2</chem>         |
| 3353 | <br><chem>NCC(C=C1)=CC=C1N2N=NC(CN3CCOCCOCCOCCOCC3)=C2</chem> |
| 3354 | <br><chem>CN(CC1)CCC1N2N=NC(C3=CC=C(CN)C=C3)=C2</chem>        |

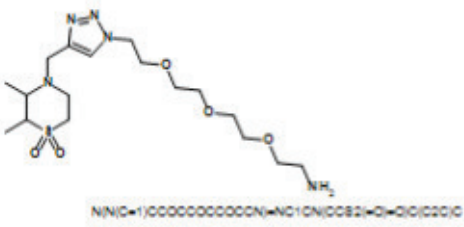
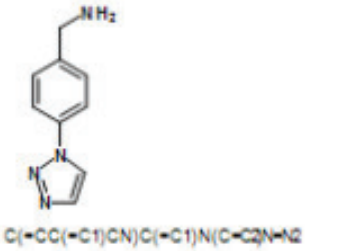
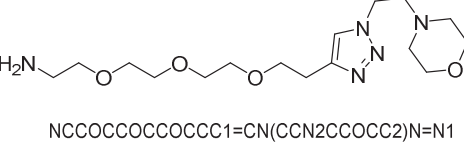
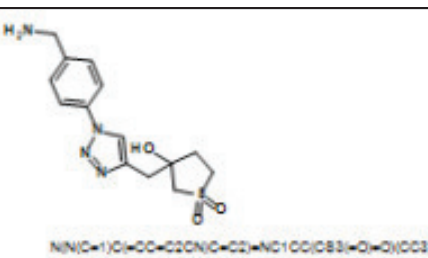
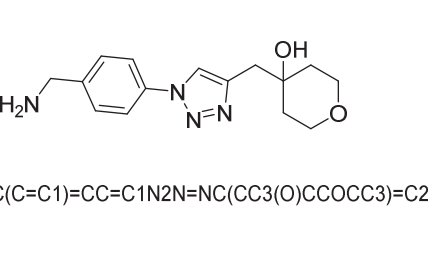
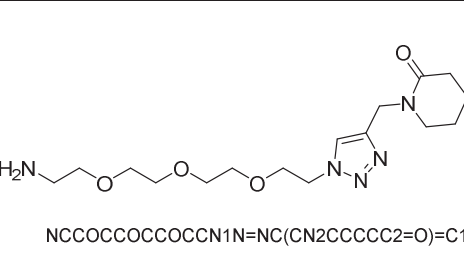
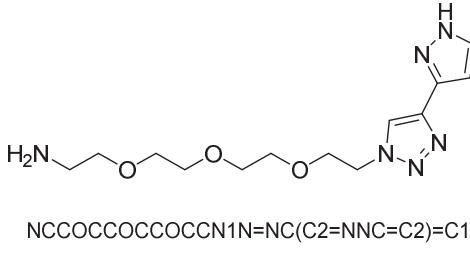
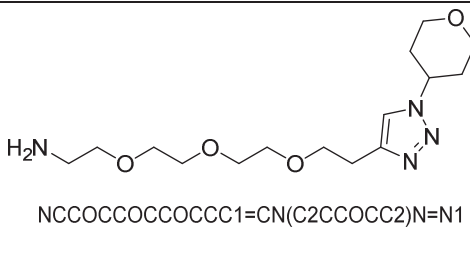
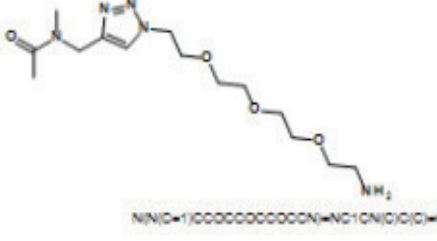
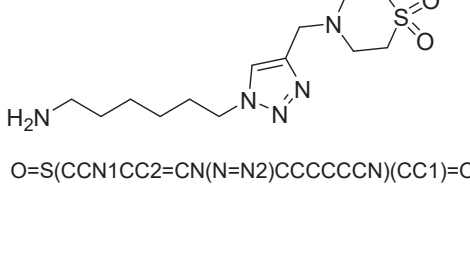
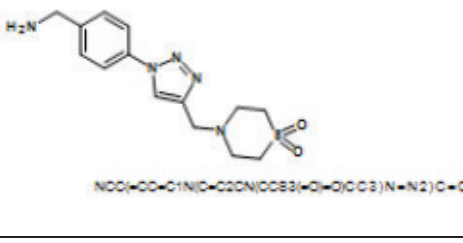
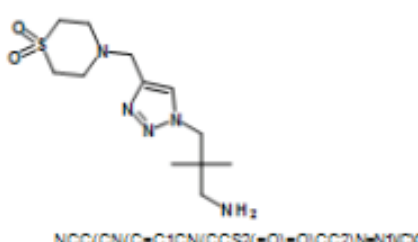
### FIGURE 60

[illegible][illegible]

FIGURE 6P

|      |                                                                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3368 | <br><chem>N#N(C=O)CCCCCCCCCCCCCN(N=C1C(C(=O)N2C=O)=C(C)C)C=C2</chem>    |
| 3369 | <br><chem>N#N(C=O)CCCCCCCCCCCCCN(N=C1C(C(=O)N2C=O)=C(C)C)C=C2</chem>    |
| 3370 | <br><chem>O(CCCCCCCCCCCCCCN(N=N1)C=C1C(=CN2)C=N2)N</chem>              |
| 3371 | <br><chem>COCCOC(CC1)CCN1CC2=CN(CCOCCOCCOCCN)N=N2</chem>              |
| 3372 | <br><chem>NCCOCCOCCOCCCN1N=NC(C2=CC=C(C1)C=C2)=C1</chem>              |
| 3373 | <br><chem>CC(C)C(=O)CCCCCCCCCCCCCN(N=N1)C=C1C(=CN2)C=N2</chem>        |
| 3374 | <br><chem>NCCOCCOCCOCCCN1N=NC(C(C=C2)=CNC2=O)=C1</chem>                |
| 3375 | <br><chem>NCCOCCOCCOCCCN1=CN(C2CCS(CC2)(=O)=O)N=N1</chem>              |
| 3376 | <br><chem>O(C=CC1(N(N1)CCN(N2)C2)CCCCCCCCCCCCCN</chem>                 |
| 3377 | <br><chem>C(C=CC1C(C)C=C1)C(C=CC2C(C)N2)N=N2</chem>                   |
| 3378 | <br><chem>C(=NN1C(=CC=C2CN)C=C2)C(=C1)CN(C(C3)C(N3)=O</chem>         |
| 3379 | <br><chem>N#N(C=O)CCCCCCCCCCCCCN(N=C1C(C(=O)N2C=O)=C(C)C)C=C2</chem> |
| 3380 | <br><chem>NCCOCCOCCOCCCN1=CN(C2COCC2)N=N1</chem>                     |

**FIGURE 6Q**

|      |                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 3381 | <br><chem>N#N[C@H]1CC[C@@H](C)N(CCN2C=NC=C2)CCOCCOCCOCCN</chem> |
| 3382 | <br><chem>N#N1C=CC=C1CNCC2=CC=C(C=C2)N</chem>                   |
| 3383 | <br><chem>N#N1C=CC=C1CN(CCN2C=NC=C2)CCOCCOCCOCCN</chem>         |
| 3384 | <br><chem>N#N1C=CC=C1CN(CCN2C=NC=C2)CCOCCOCCOCCN</chem>        |
| 3385 | <br><chem>N#N1C=CC=C1CN(CCN2C=NC=C2)CCOCCOCCOCCN</chem>       |
| 3386 | <br><chem>N#N1C=CC=C1CN(CCN2C=NC=C2)CCOCCOCCOCCN</chem>       |
| 3387 | <br><chem>N#N1C=CC=C1CN(CCN2C=NC=C2)CCOCCOCCOCCN</chem>        |
| 3388 | <br><chem>N#N1C=CC=C1CN(CCN2C=NC=C2)CCOCCOCCOCCN</chem>        |
| 3389 | <br><chem>N#N1C=CC=C1CN(CCN2C=NC=C2)CCOCCOCCOCCN</chem>       |
| 3390 | <br><chem>N#N1C=CC=C1CN(CCN2C=NC=C2)CCOCCOCCOCCN</chem>      |
| 3391 | <br><chem>N#N1C=CC=C1CN(CCN2C=NC=C2)CCOCCOCCOCCN</chem>      |
| 3392 | <br><chem>N#N1C=CC=C1CN(CCN2C=NC=C2)CCOCCOCCOCCN</chem>     |

**FIGURE 6R**

|      |                                                            |
|------|------------------------------------------------------------|
| 3393 | <br><chem>NCCOCCOCCOCCCN1N=NC(CC2(O)CSCC2)=C1</chem>       |
| 3394 | <br><chem>H2NCH2OCH2OCH2OCH2N1NNC(CS(=O)(=O)C)CC1=C</chem> |
| 3395 | <br><chem>NCCOCCOCCOCCCN1N=NC(CCOCC2)=C1</chem>            |
| 3397 | <br><chem>N/C=C\CCCCCCC(Cl)CC(Cl)CC(Cl)CC(N)=O</chem>      |
| 3398 | <br><chem>O=S(=O)(CC1N(C)=CC(OC)=CC3CN(C)C=N2)CC1=O</chem> |
| 3399 | <br><chem>NCC(C=C1)CC=C1C(N=N2)=CN2CCC3COCCN3</chem>       |
| 3400 | <br><chem>O=S(=O)(CCN1CC2=CN(N=N2)CCCN)(CC1)=O</chem>      |

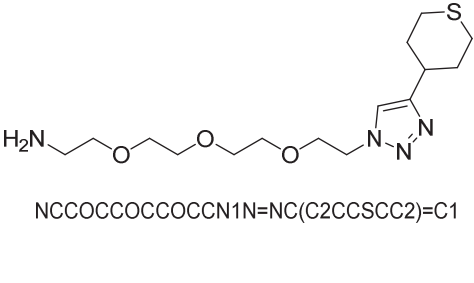
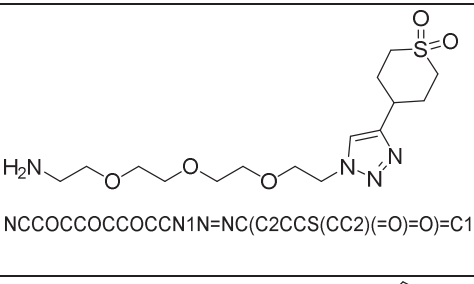
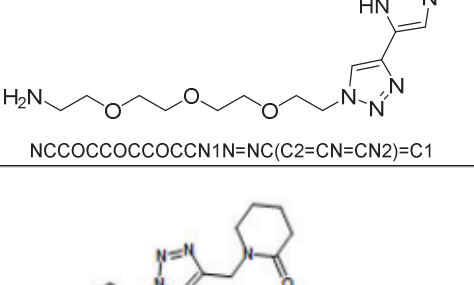
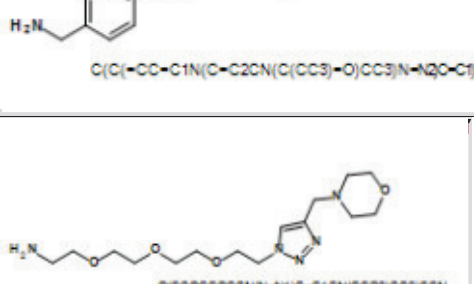
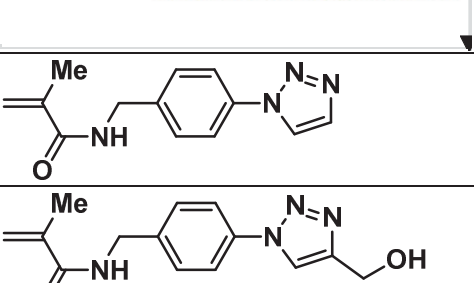
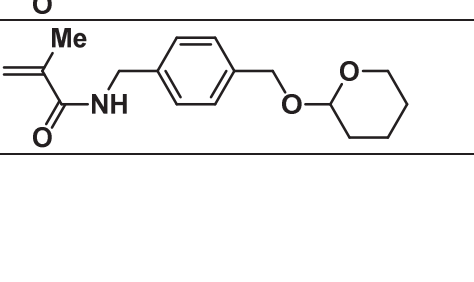
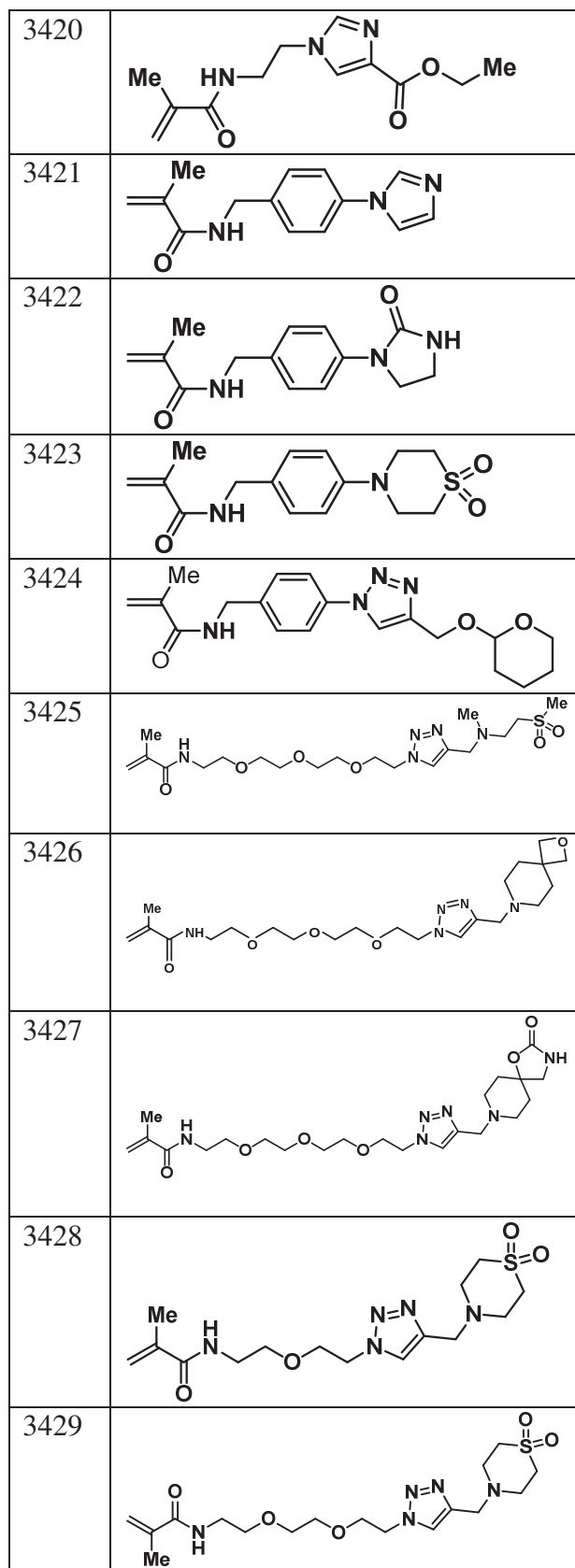
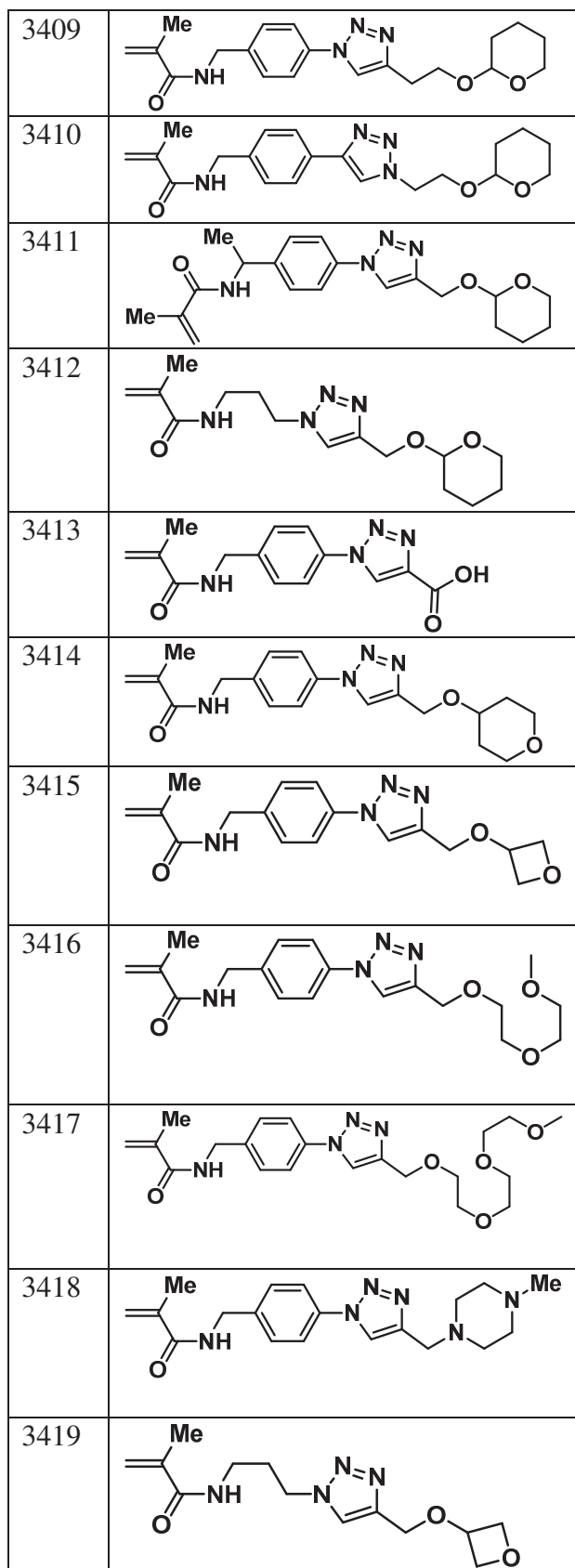
|      |                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 3401 |  <chem>NCCOCCOCCOCCOCCN1N=NC(C2CCSCC2)=C1</chem>               |
| 3402 |  <chem>NCCOCCOCCOCCN1N=NC(C2CCS(CC2)(=O)=O)=C1</chem>          |
| 3403 |  <chem>NCCOCCOCCOCCN1N=NC(C2=CN=CN2)=C1</chem>                |
| 3404 |  <chem>C(C1CC=C(C=C1)N2C=NC=C2N3CCCC3=O)C4=CC=CC=C4CN</chem> |
| 3405 |  <chem>NCCOCCOCCOCCOCCN1N=NC(C2CCOCC2)=C1</chem>             |
| 3406 |  <chem>CC(=O)NC(C)C1=CC=C(C=C1)N2C=NC=C2</chem>              |
| 3407 |  <chem>CC(=O)NC(C)C1=CC=C(C=C1)N2C=NC=C2CO</chem>            |
| 3408 |  <chem>CC(=O)NC(C)C1=CC=C(C=C1)N2C=NC=C2COCC3CCCCC3</chem>   |

FIGURE 6S



**FIGURE 6T**

