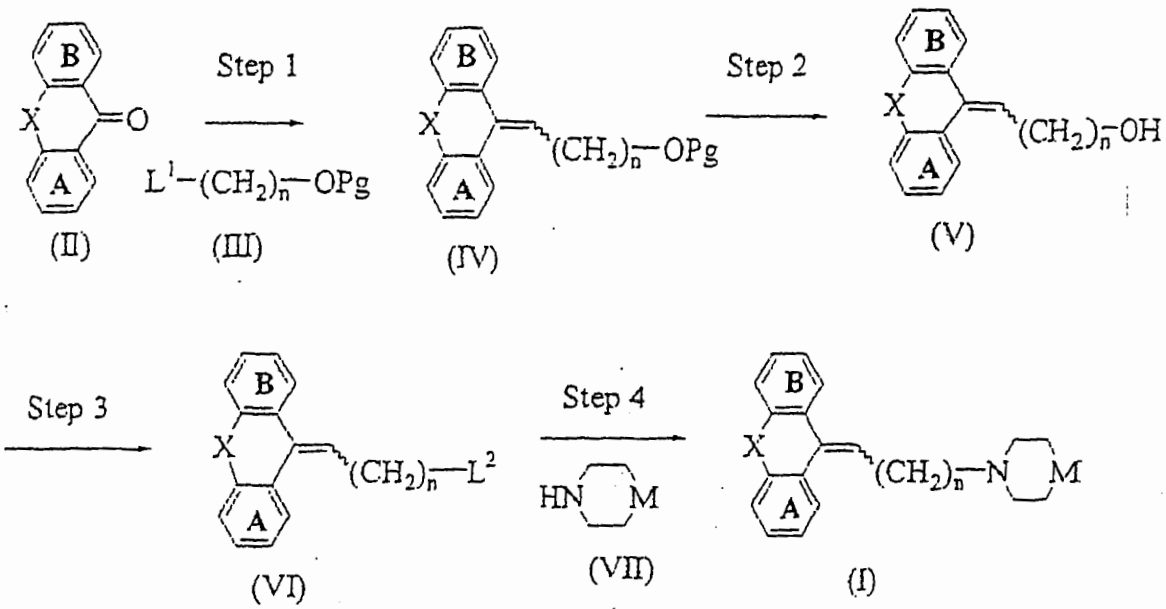

B
X
A
O
Step 1
L1–(CH2)n–OPg
(II)
(III)
(CH2)n–OPg
(IV)
Step 2
(CH2)n–OH
(V)
Step 3
(CH2)n–L2
(VI)
Step 4
HN M
(VII)
(CH2)n–N M
(I)

Figure 1

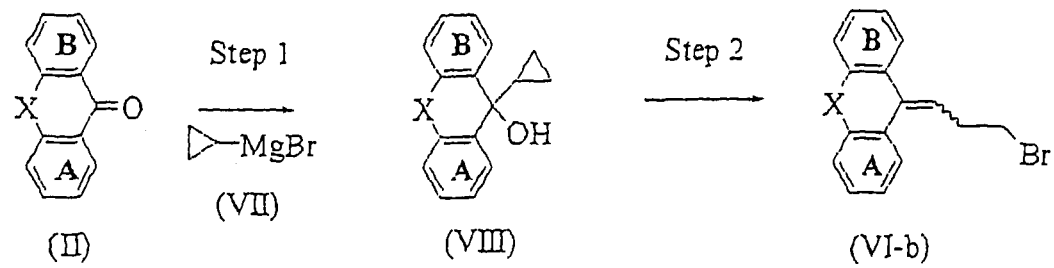
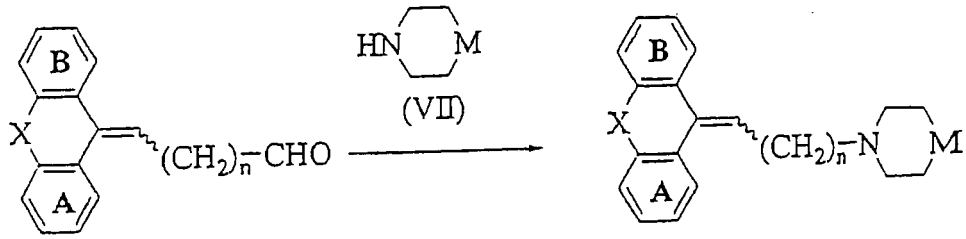
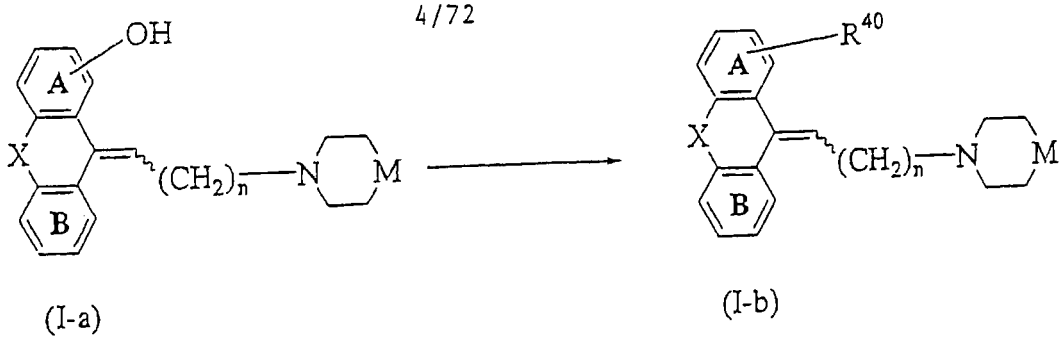


Figure 2



(IX) (I)

Figure 3



(I-a) (I-b)

Figure 4

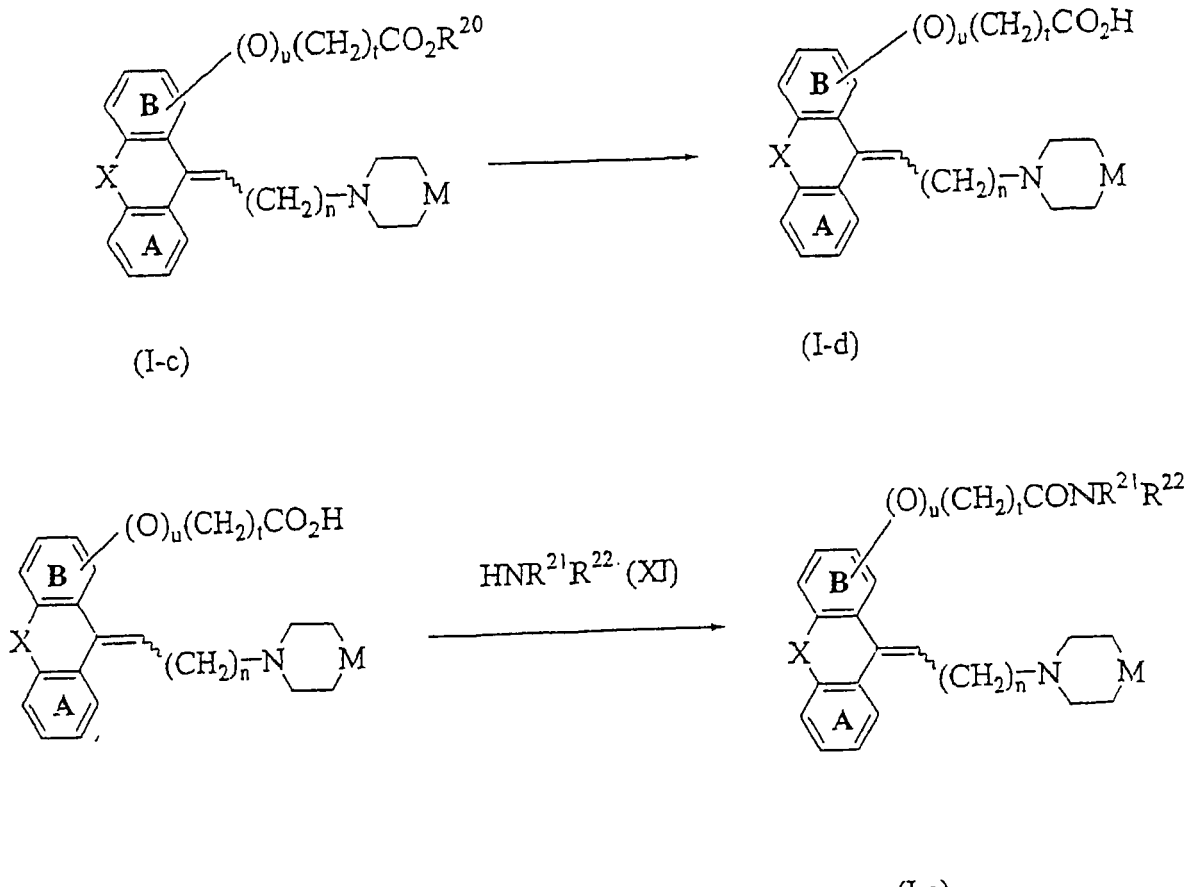
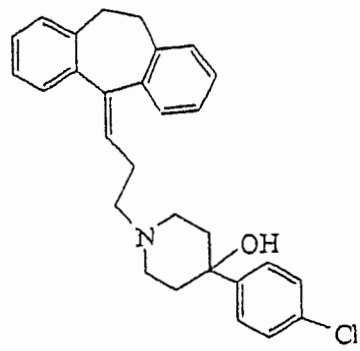
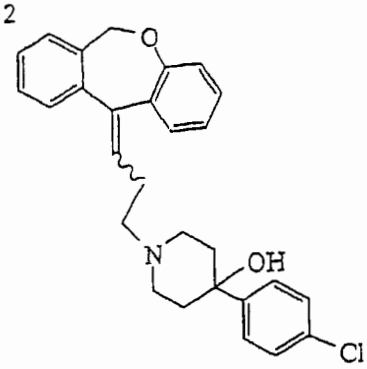

(O)u(CH2)tCO2R20
B
X
A
(CH2)n–N
M
(I-c)
(O)u(CH2)tCO2H
(I-d)
HNR21R22 (XJ)
(O)u(CH2)tCONR21R22
(I-e)

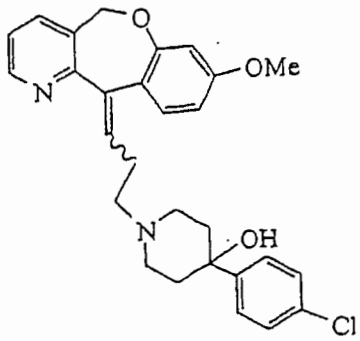
Figure 5



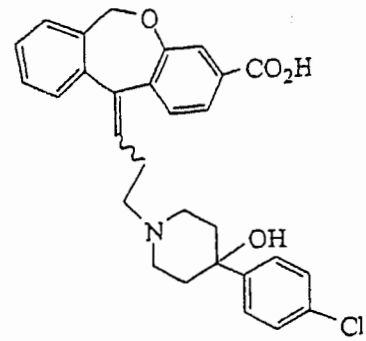
Example 1



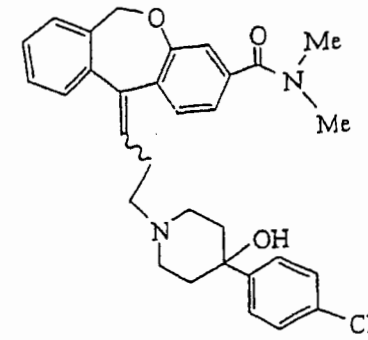
Example 2



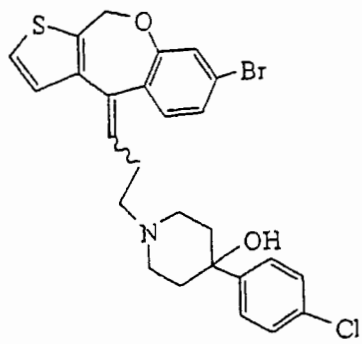
Example 4



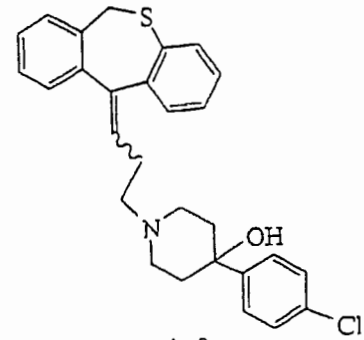
Example 5



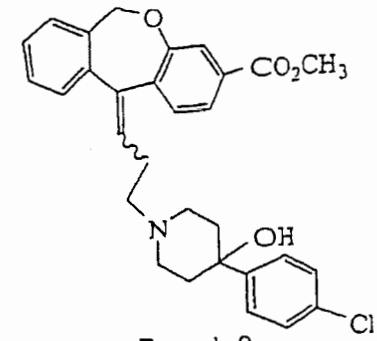
Example 6



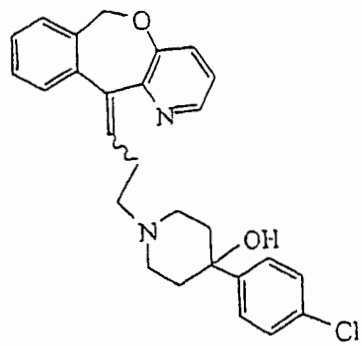
Example 7



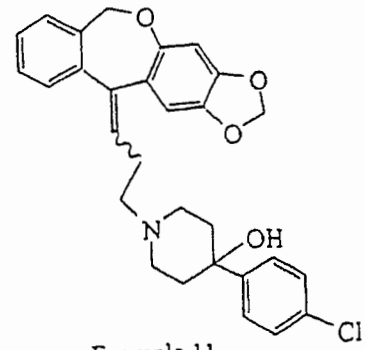
Example 8



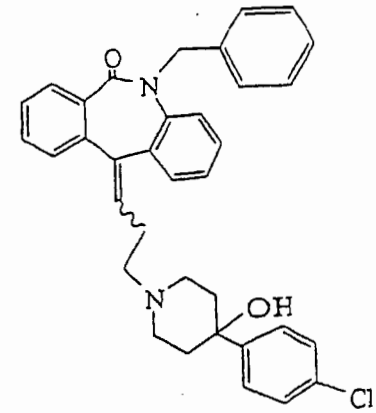
Example 9



Example 10

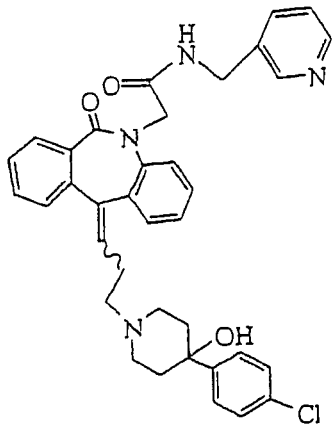


Example 11

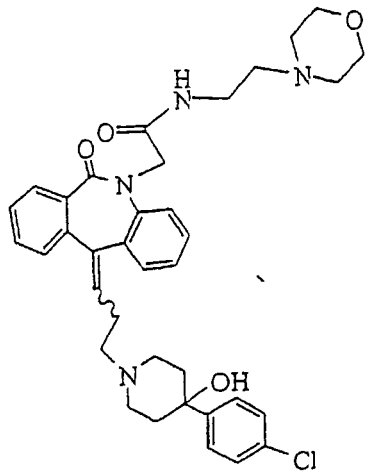


Example 12

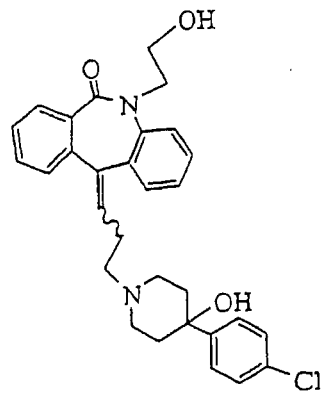
Figure 6A



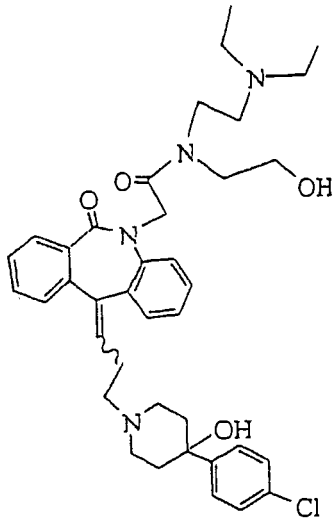
Example 13



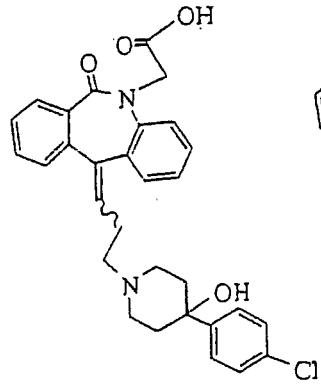
Example 14



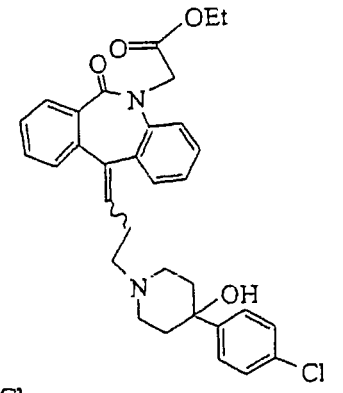
Example 15



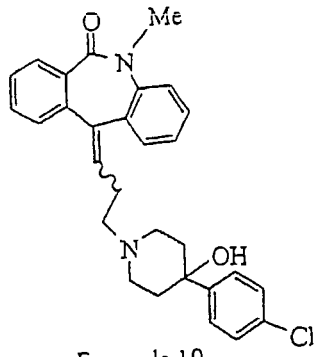
Example 16



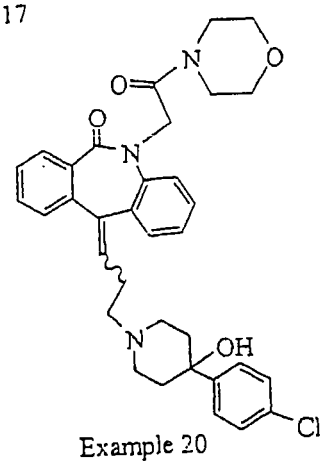
Example 17



Example 18

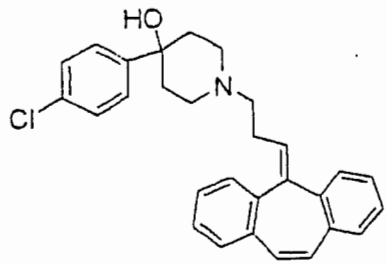


Example 19

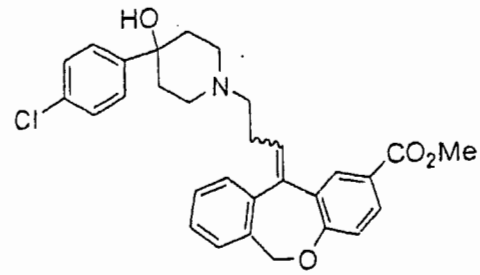


Example 20

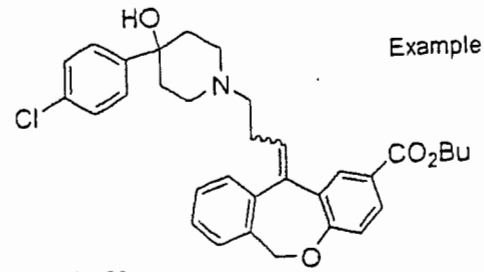
Figure 6B



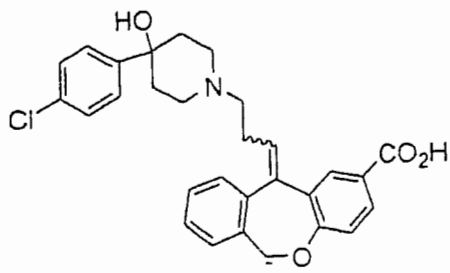
Example 21



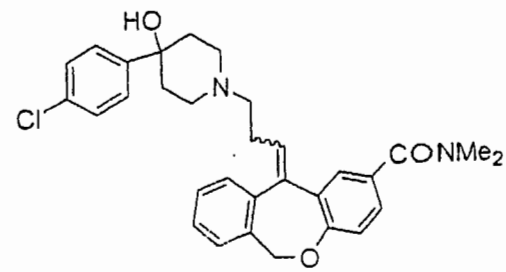
Example 22



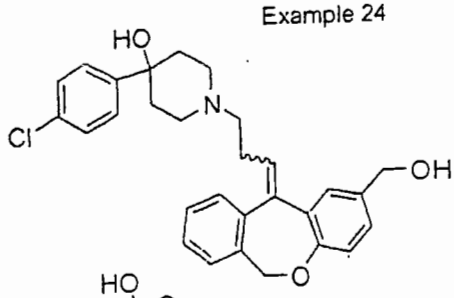
Example 23



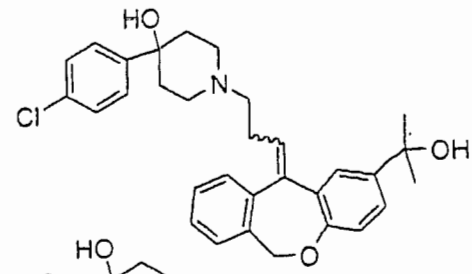
Example 24



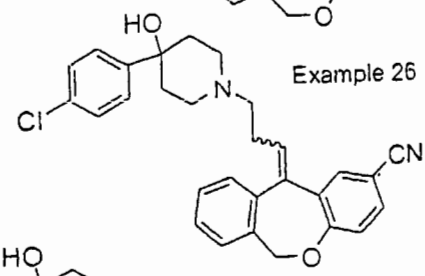
Example 25



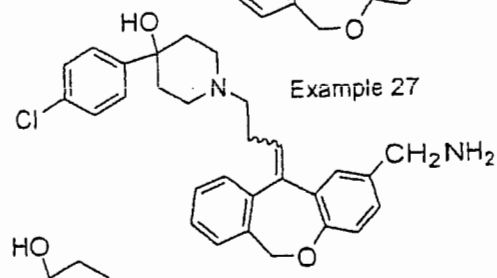
Example 26



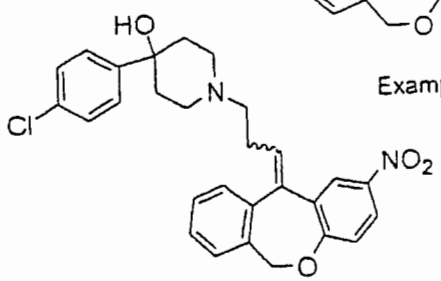
Example 27



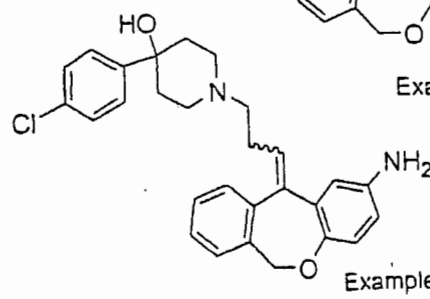
Example 28



Example 29

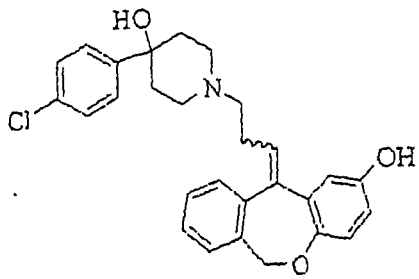


Example 30

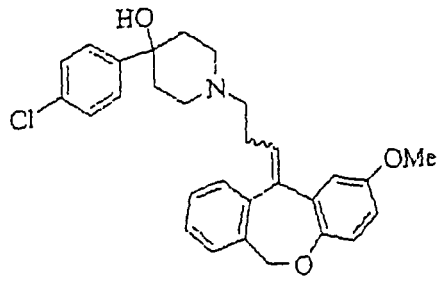


Example 31

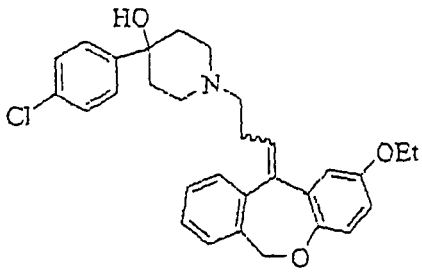
Figure 6C



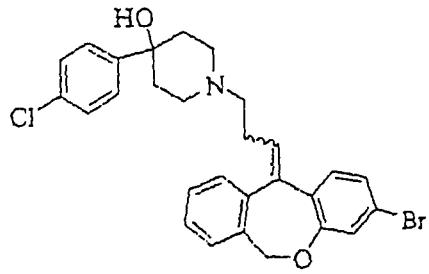
Example 32



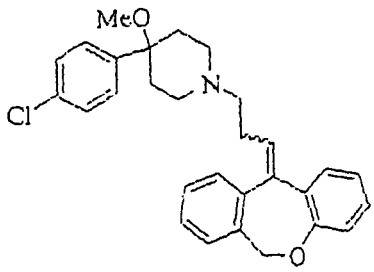
Example 33



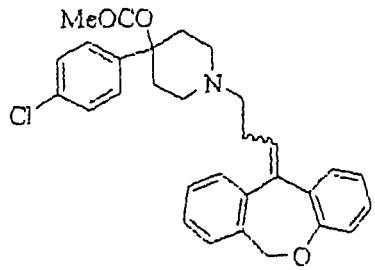
Example 34



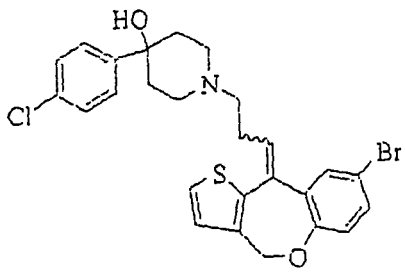
Example 35



Example 36

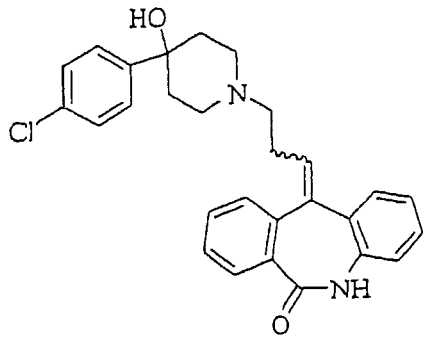


Example 37

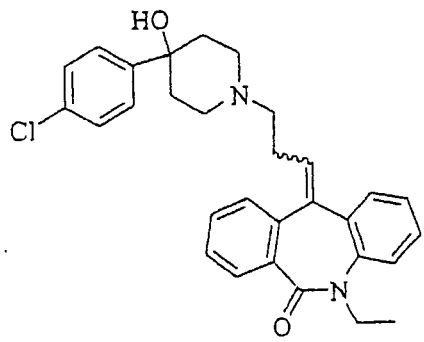


Example 38

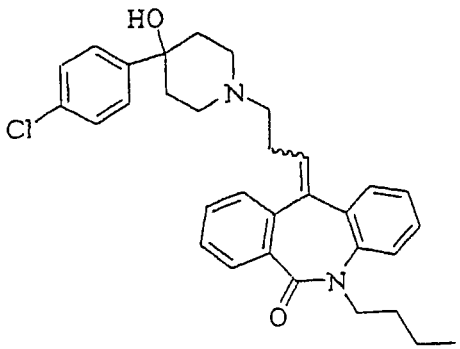
Figure 6D



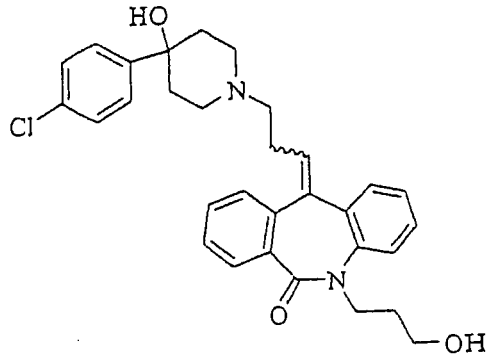
Example 39



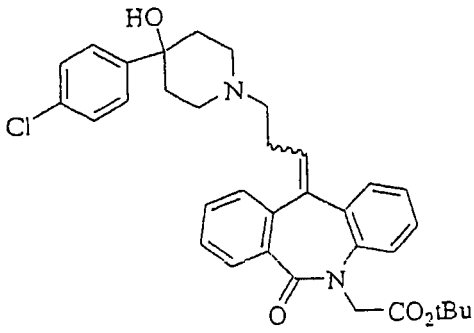
Example 40



Example 41

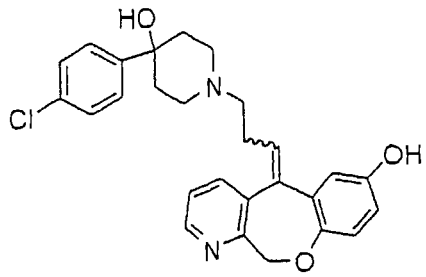


Example 42

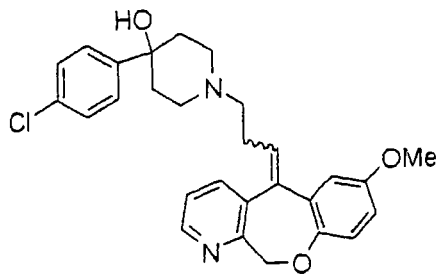


Example 43

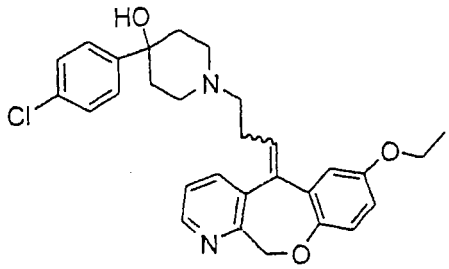
Figure 6E



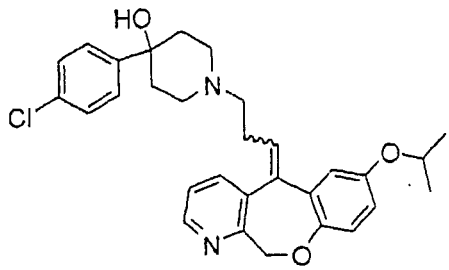
Example 44



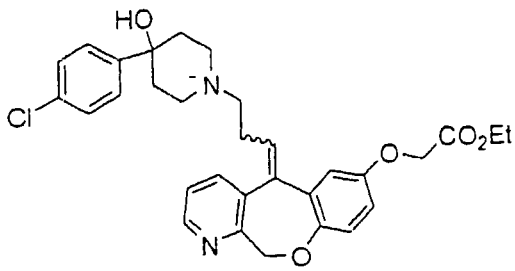
Example 45



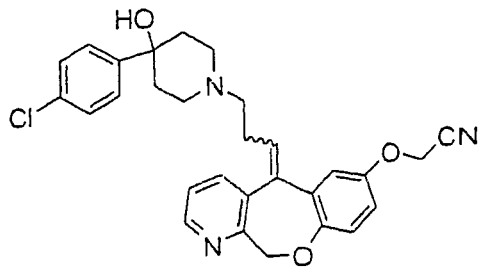
Example 46



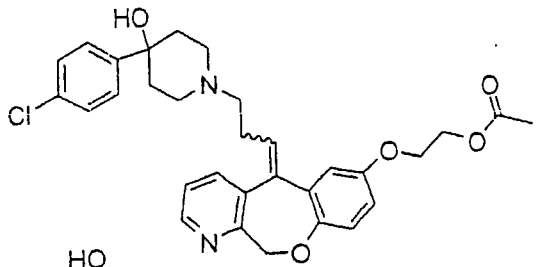
Example 47



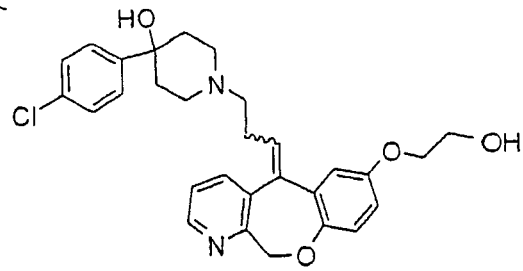
Example 48



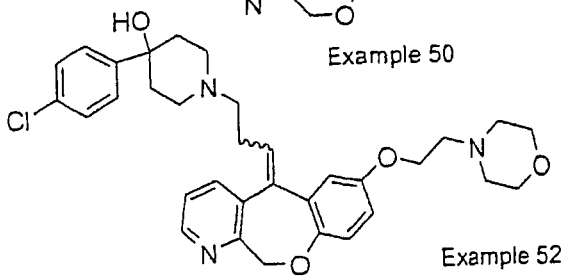
Example 49



Example 50

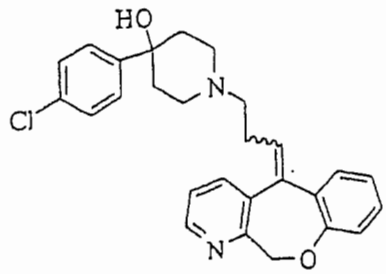


Example 51

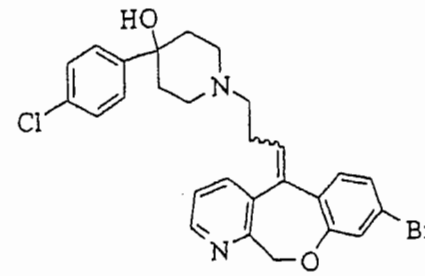


Example 52

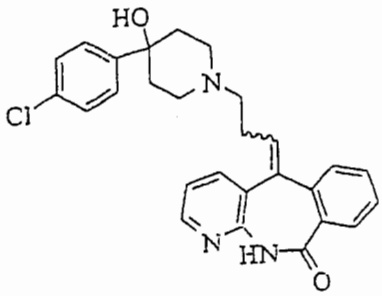
Figure 6F



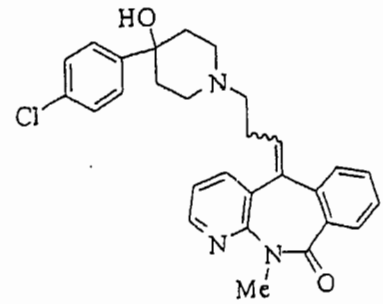
Example 53



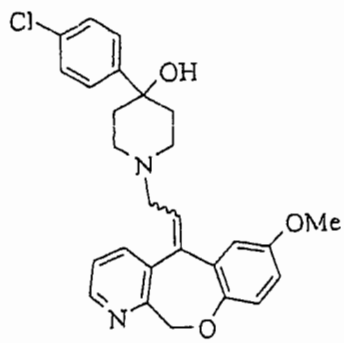
Example 54



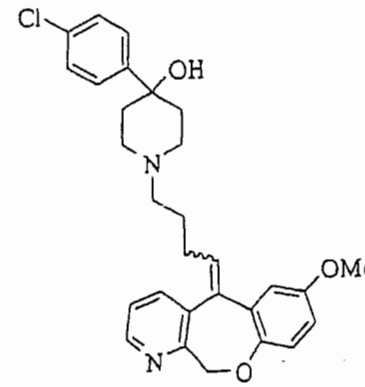
Example 55



Example 56

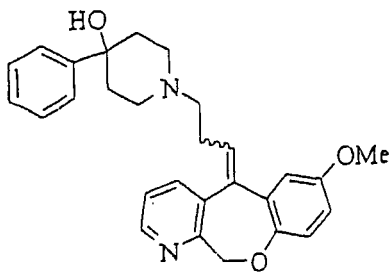


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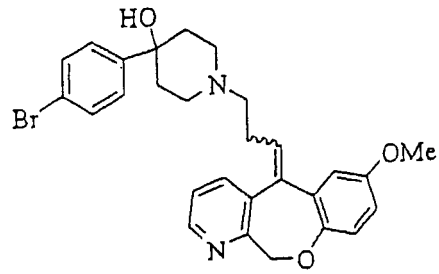


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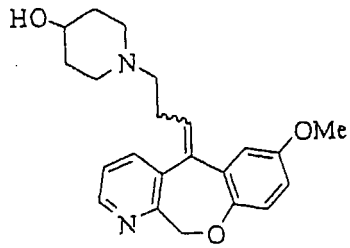
Figure 6G



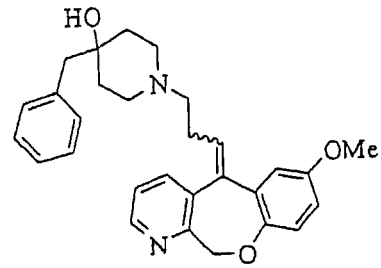
Example 59



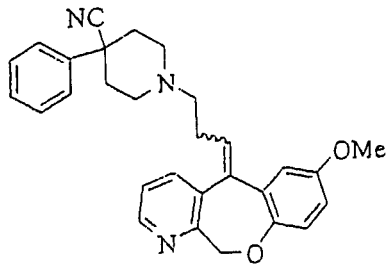
Example 60



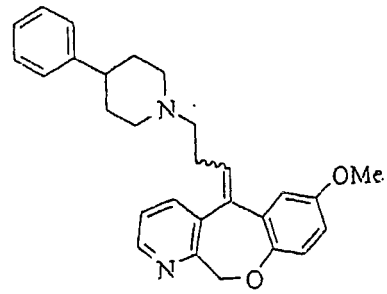
Example 61



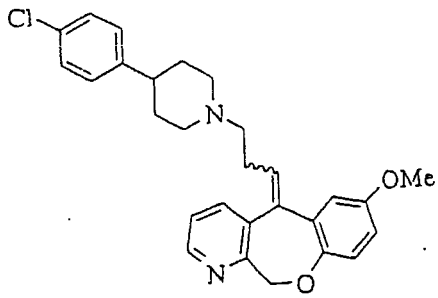
Example 62



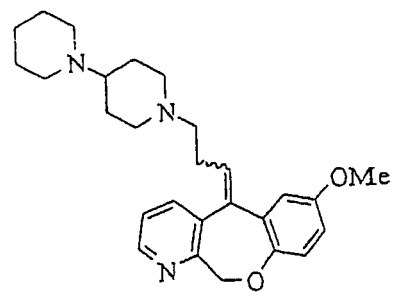
Example 63



Example 64

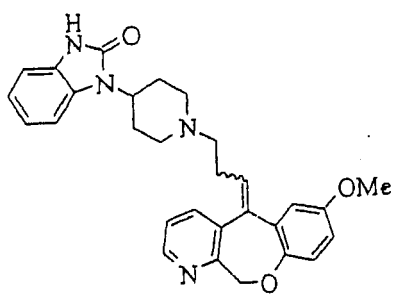


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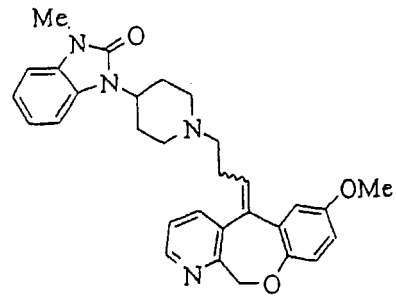


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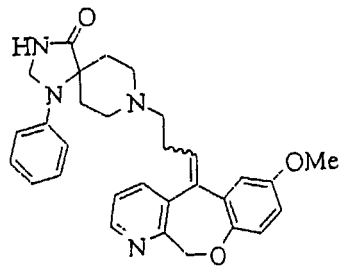
Figure 6H



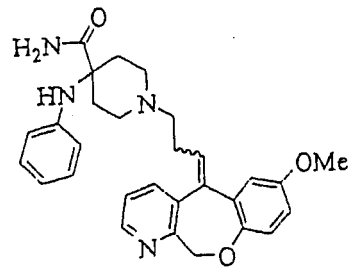
Example 67



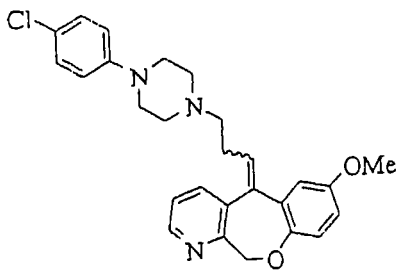
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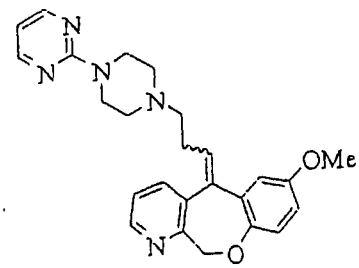
Example 69



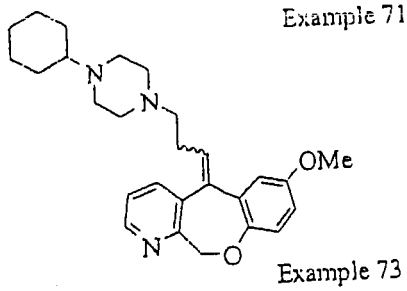
Example 70



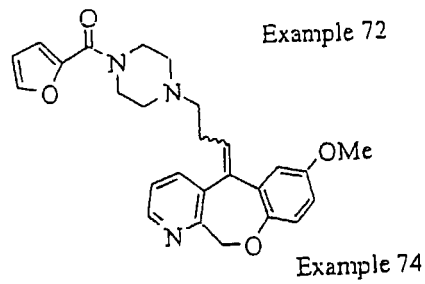
Example 71



Example 72



Example 73



Example 74

Figure 6I

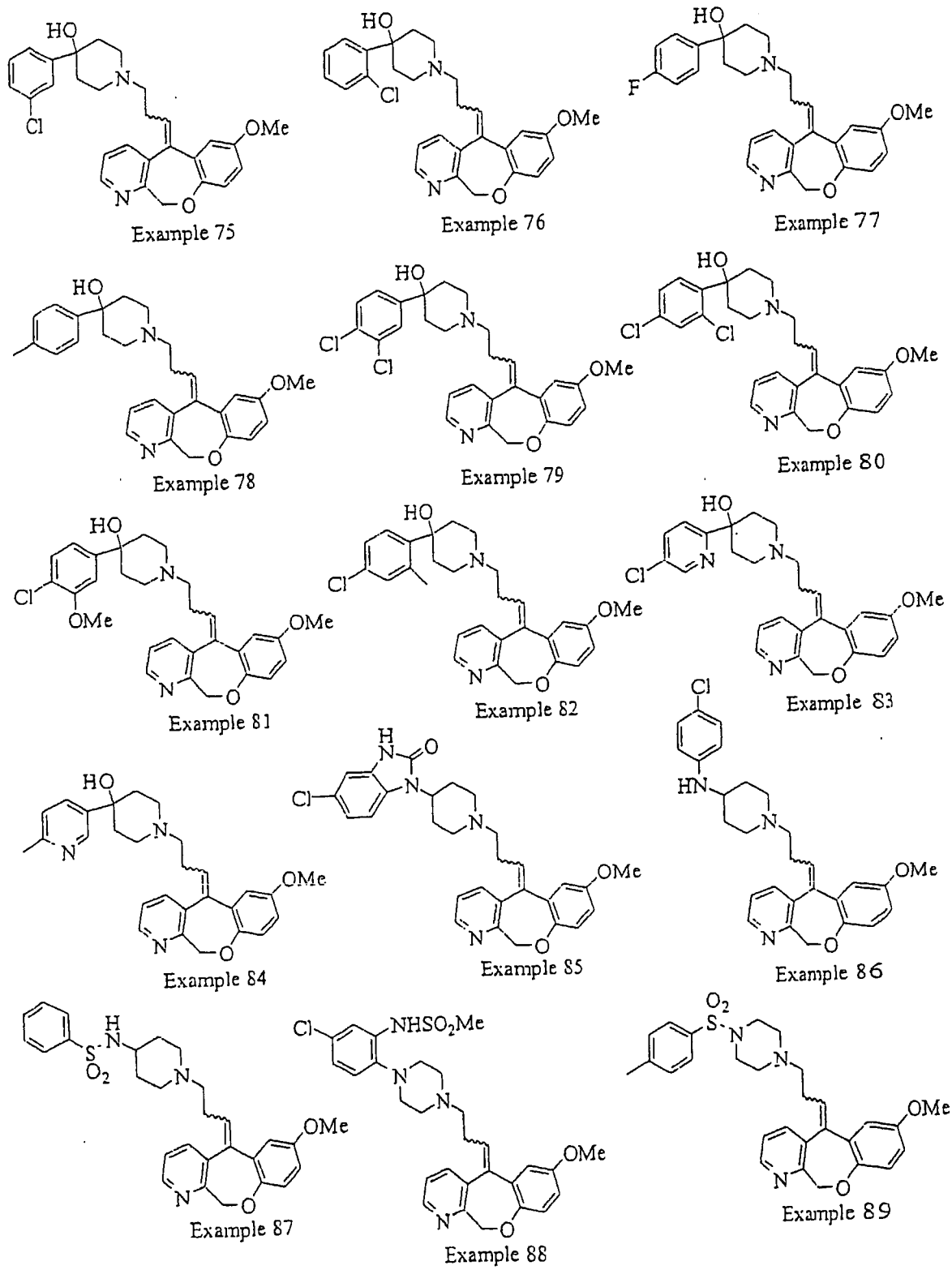

Example 75
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Example 89

Figure 6J

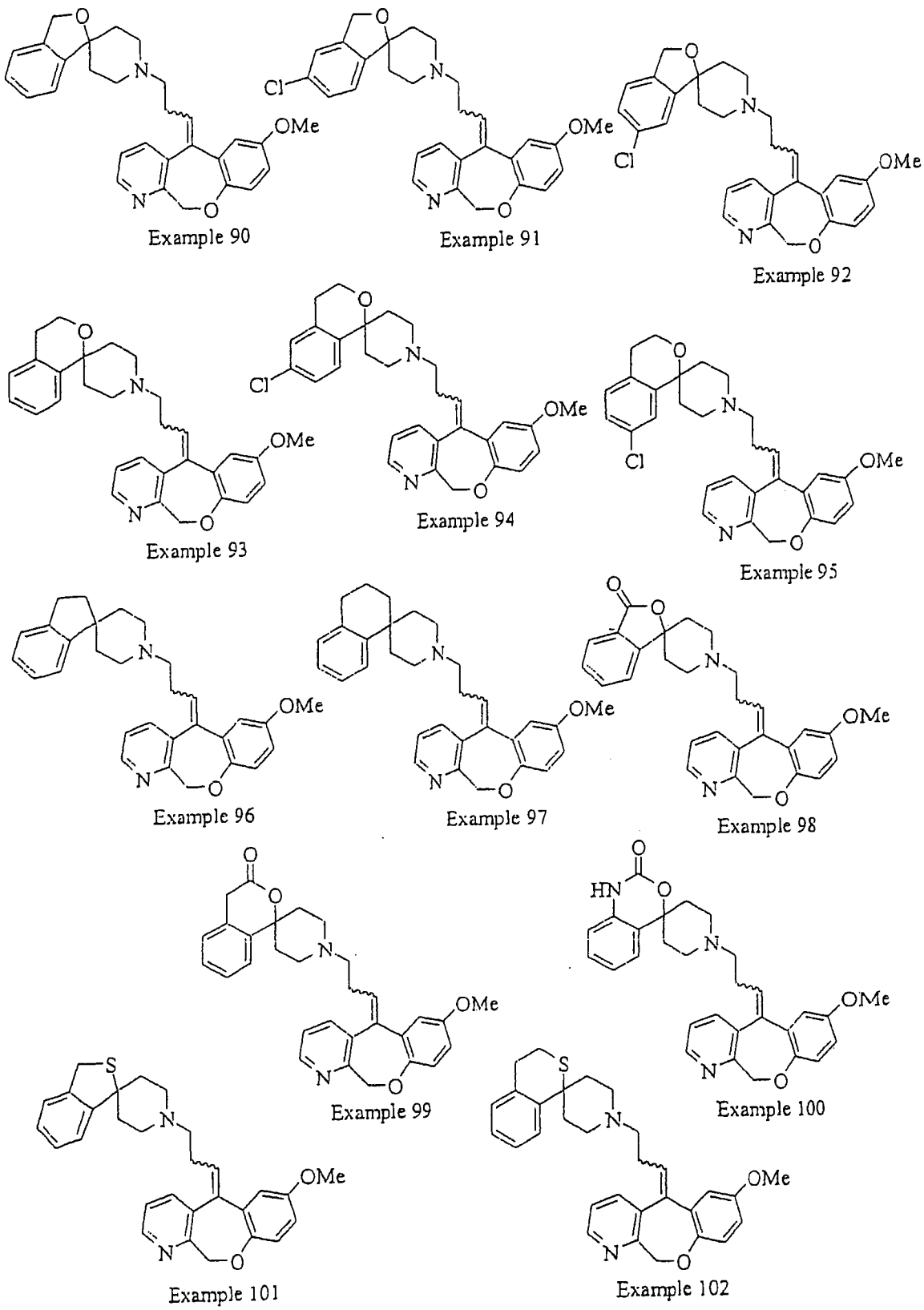
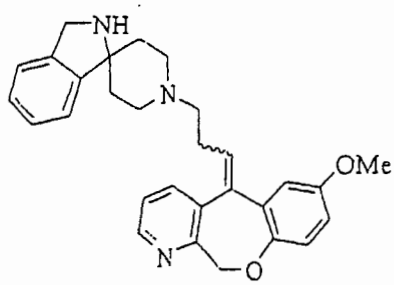
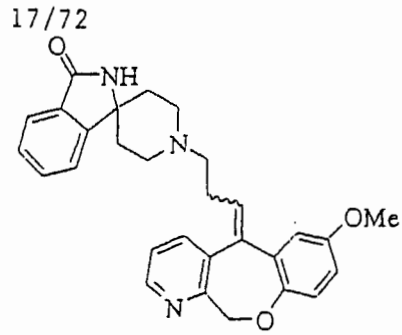

Example 90
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Example 101
Example 102

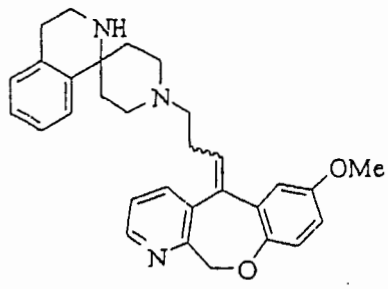
Figure 6K



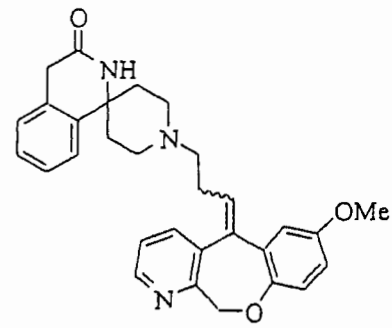
Example 103



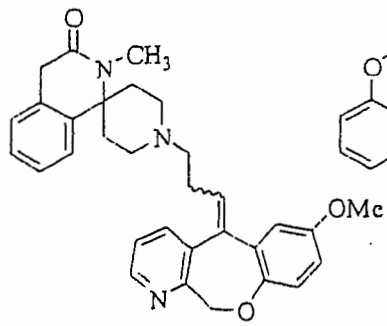
Example 104



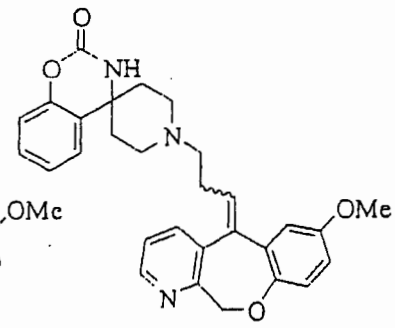
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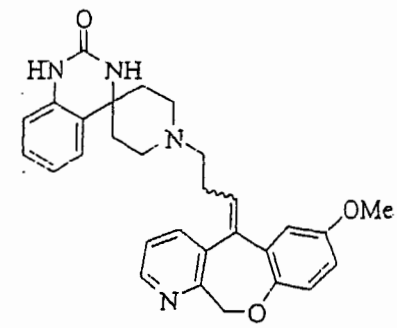
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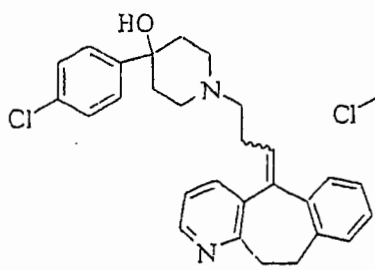
Example 107



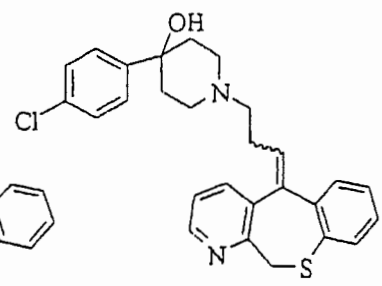
Example 108



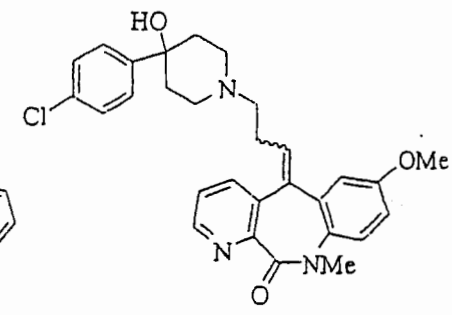
Example 109



Example 110



Example 111



Example 112

Figure 6L

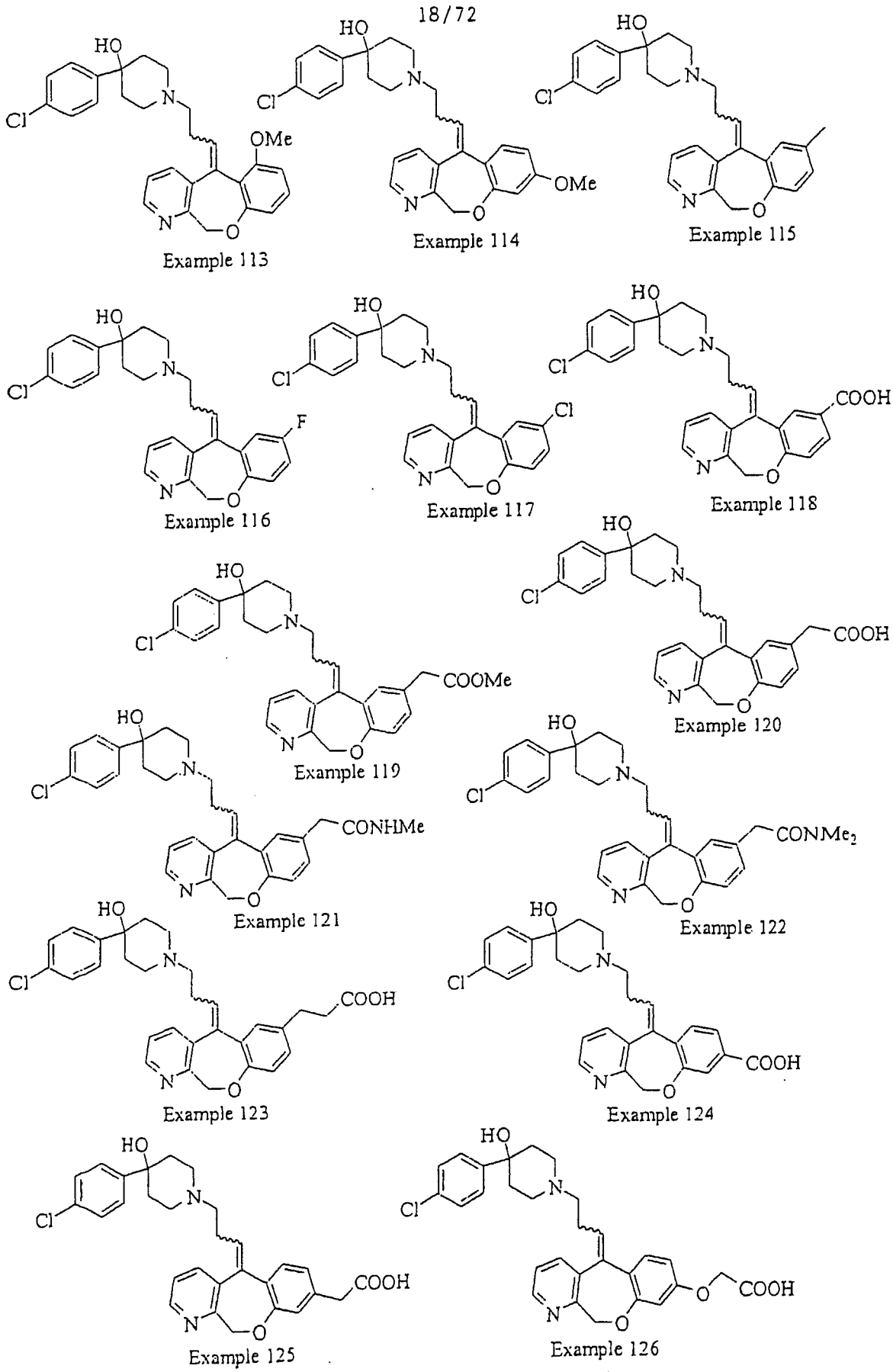
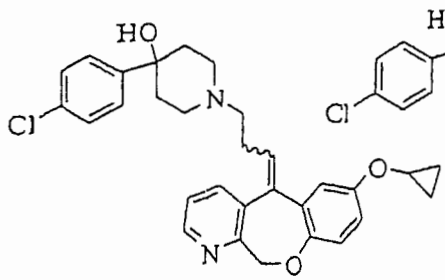
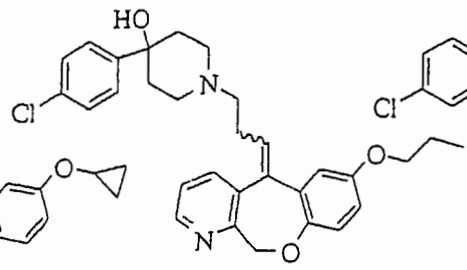

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Example 126

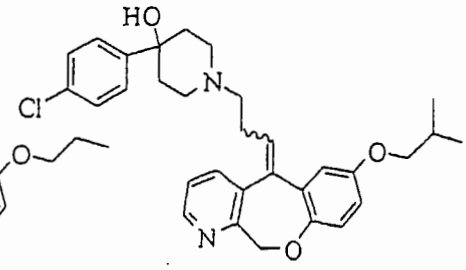
Figure 6M



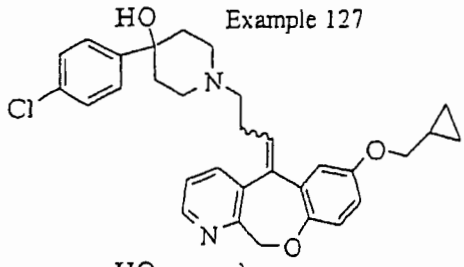
Example 127



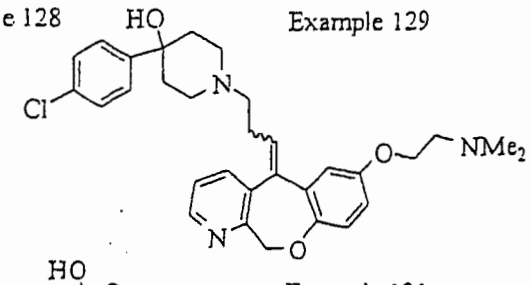
Example 128



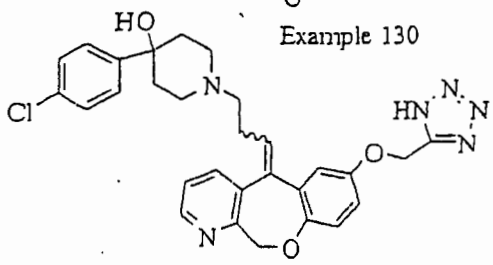
Example 129



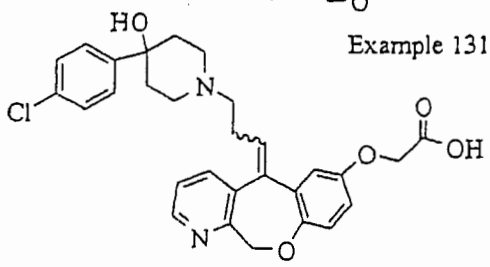
Example 130



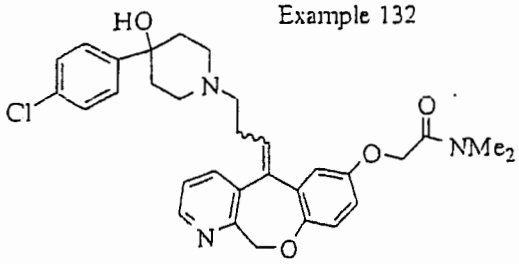
Example 131



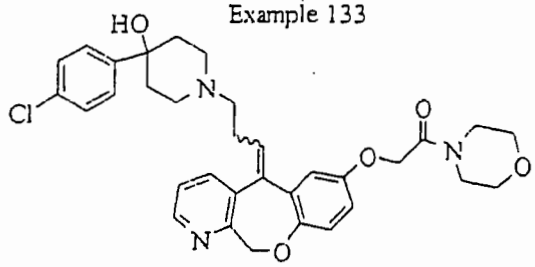
Example 132



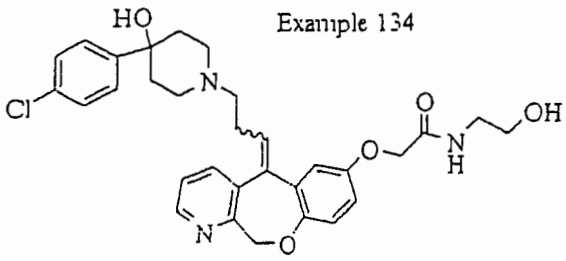
Example 133



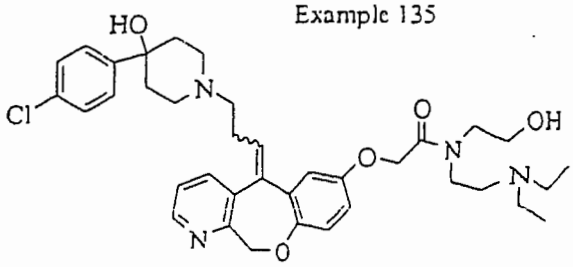
Example 134



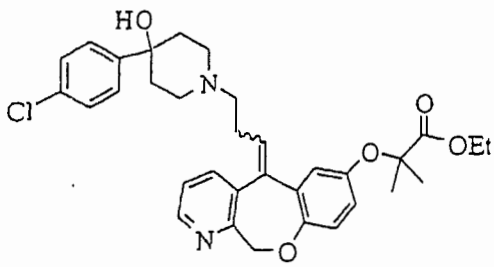
Example 135



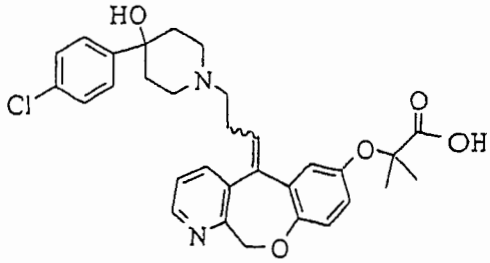
Example 136



Example 137

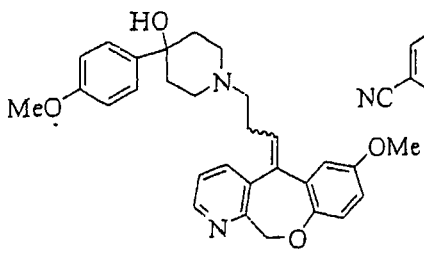


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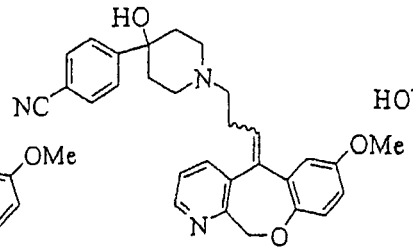


Example 139

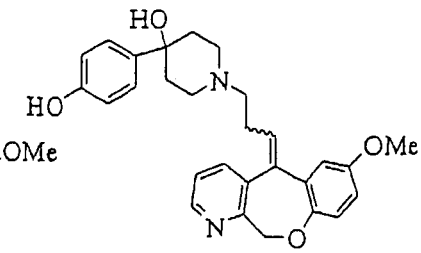
Figure 6N



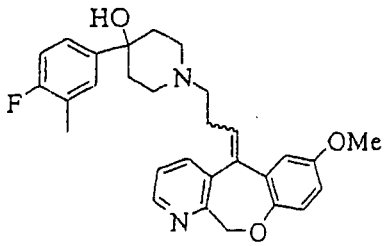
Example 140



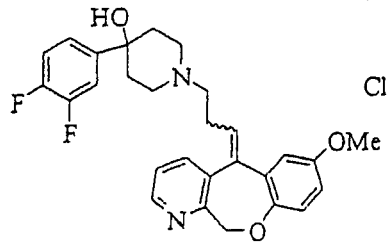
Example 141



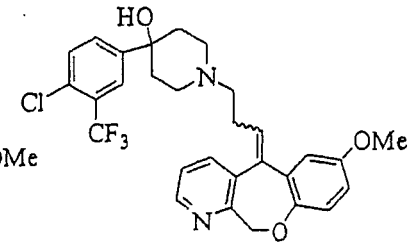
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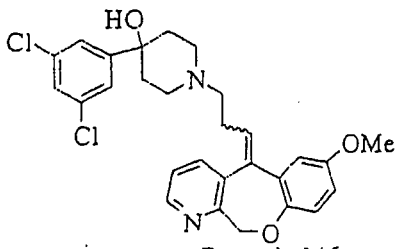
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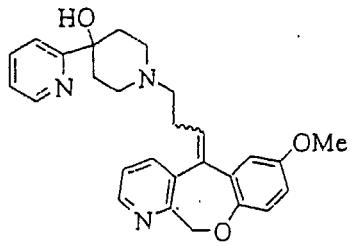
Example 144



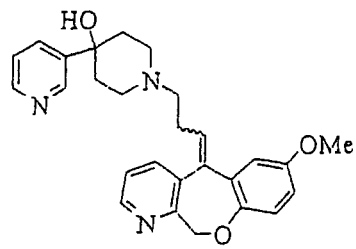
Example 145



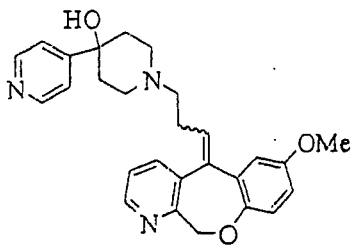
Example 146



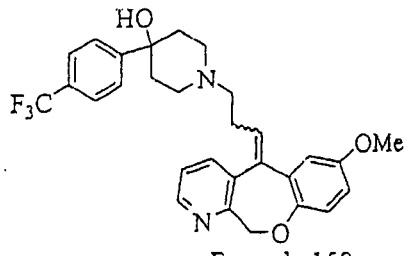
Example 147



Example 148

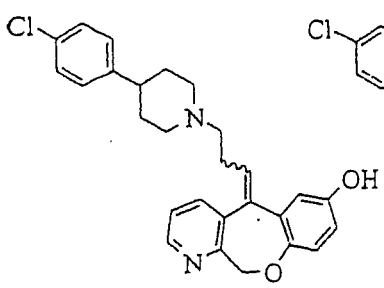


Example 149

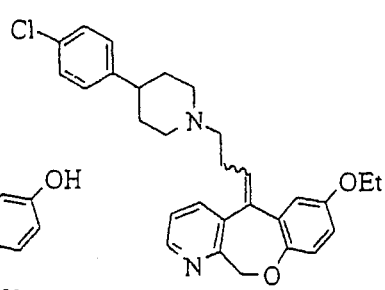


Example 150

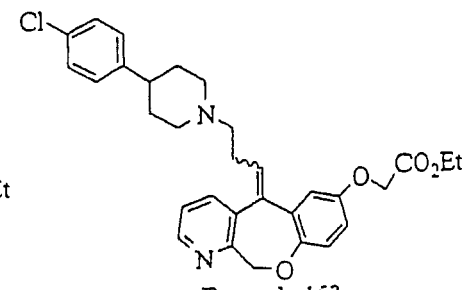
Figure 6O



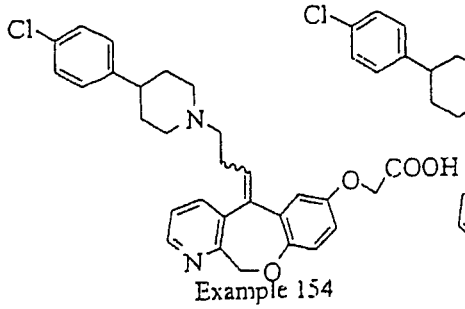
Example 151



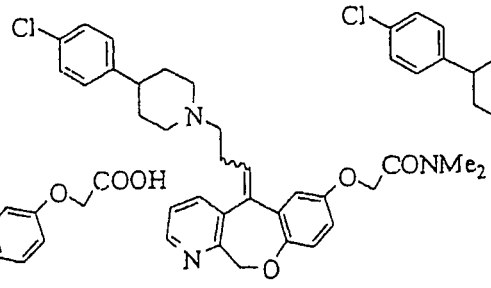
Example 152



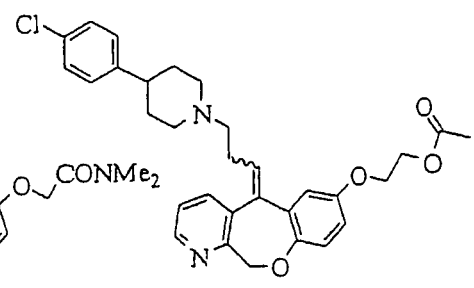
Example 153



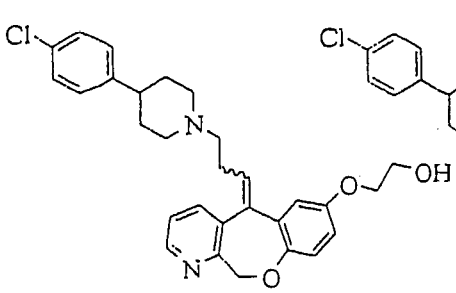
Example 154



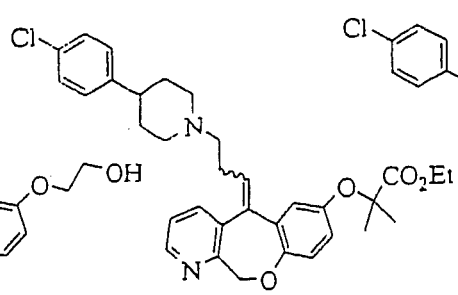
Example 155



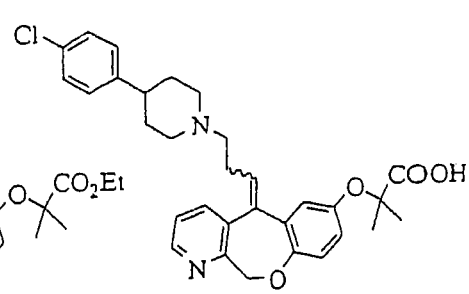
Example 156



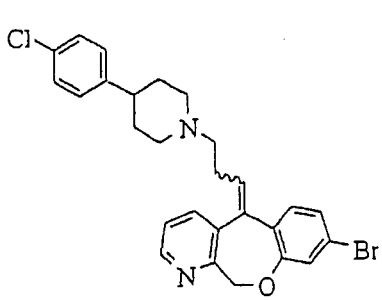
Example 157



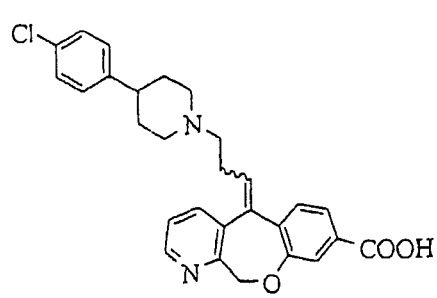
Example 158



Example 159

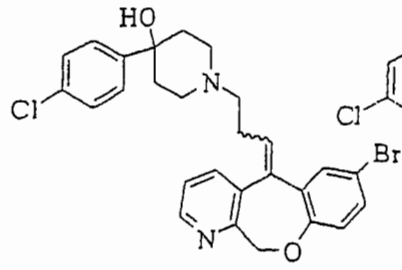


Example 160

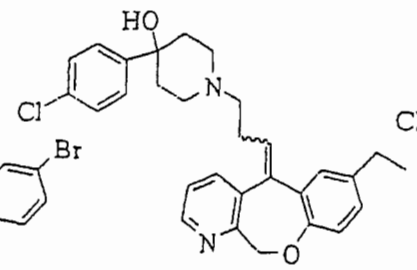


Example 161

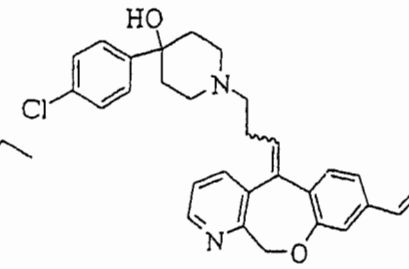
Figure 6P



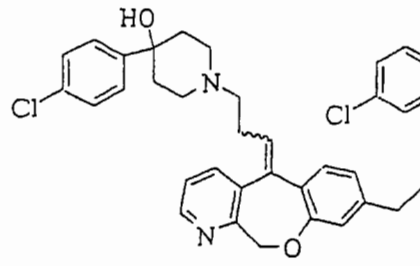
Example 162



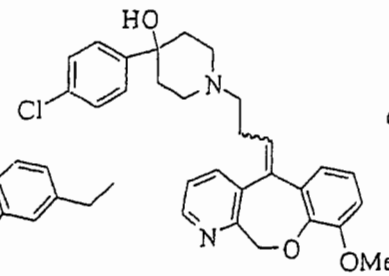
Example 163



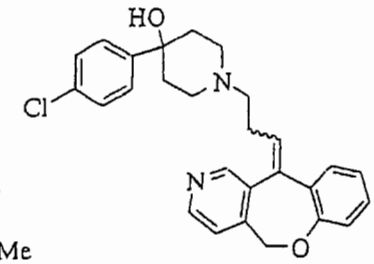
Example 164



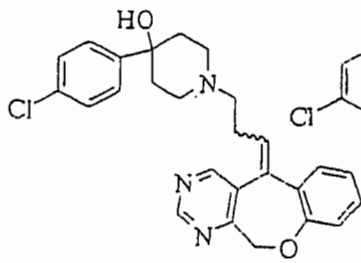
Example 165



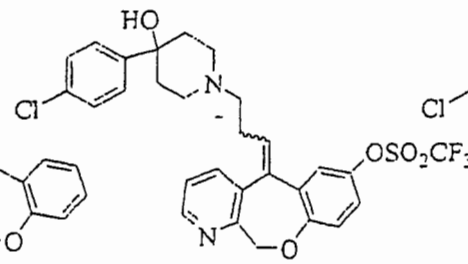
Example 166



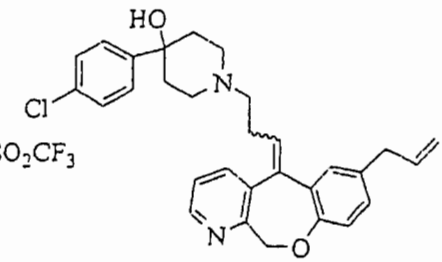
Example 167



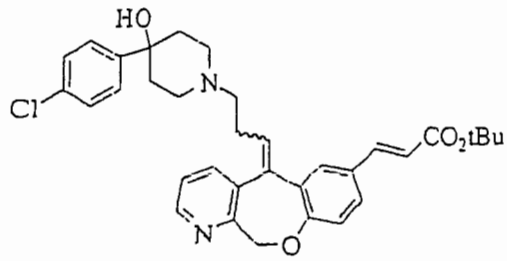
Example 168



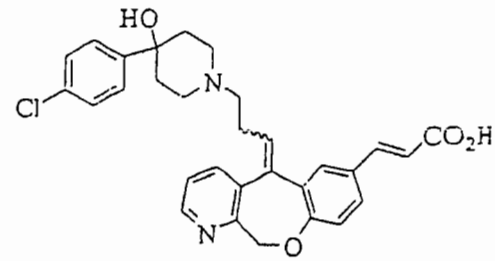
Example 169



Example 170

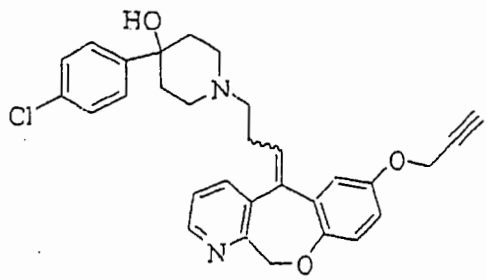


Example 171

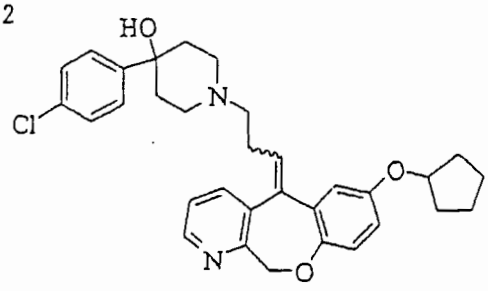


Example 172

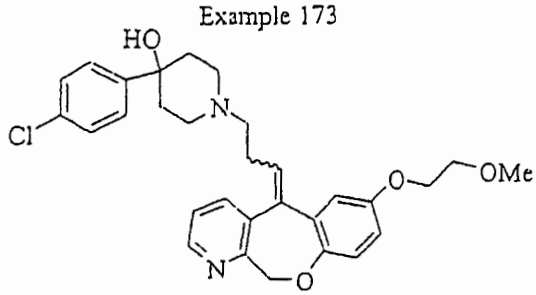
Figure 6Q



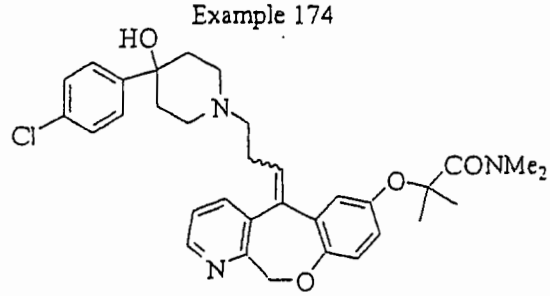
Example 173



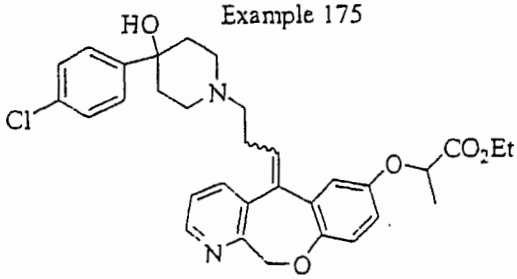
Example 174



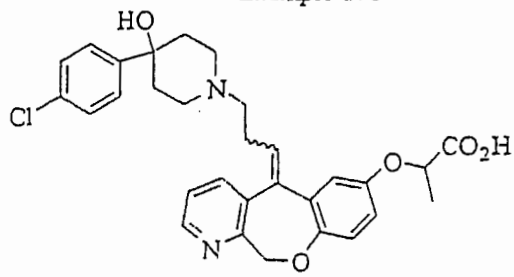
Example 175



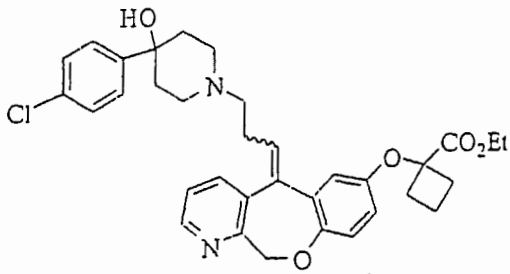
Example 176



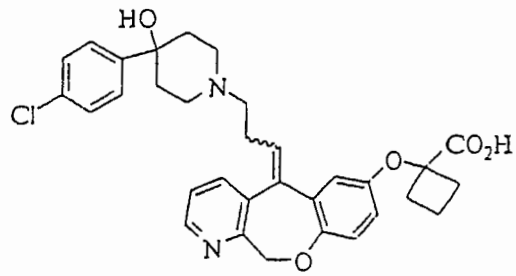
Example 177



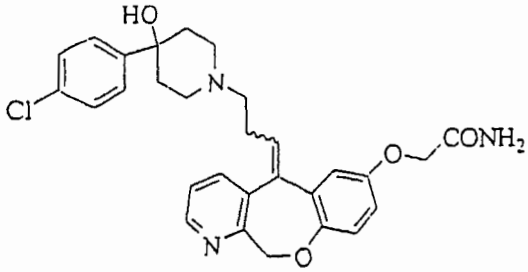
Example 178



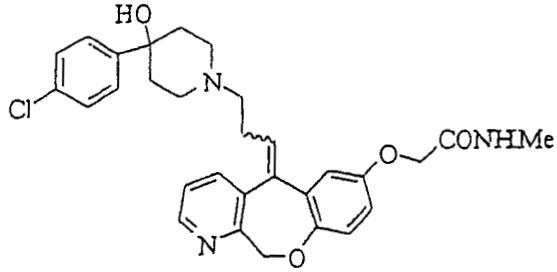
Example 179



Example 180

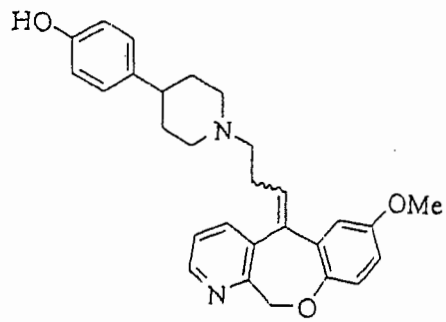


Example 181

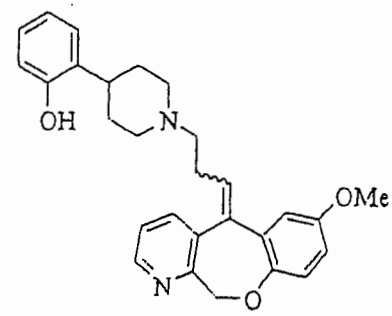


Example 182

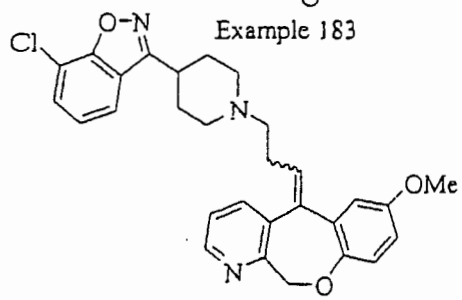
Figure 6R



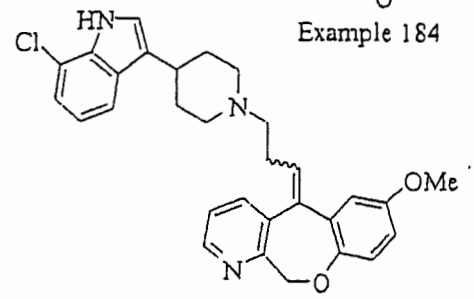
Example 183



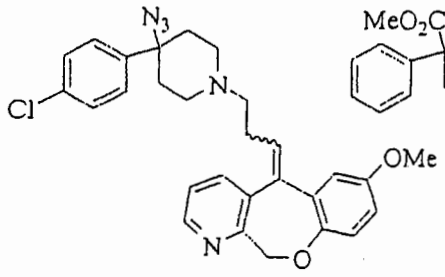
Example 184



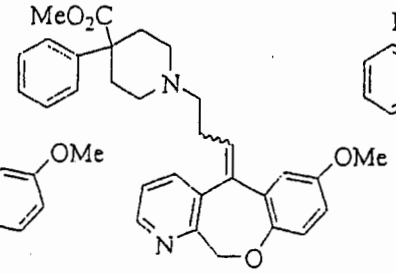
Example 185



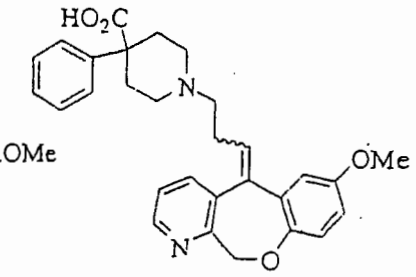
Example 186



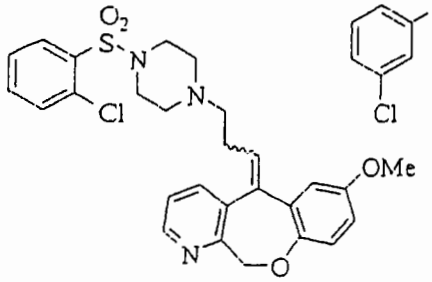
Example 187



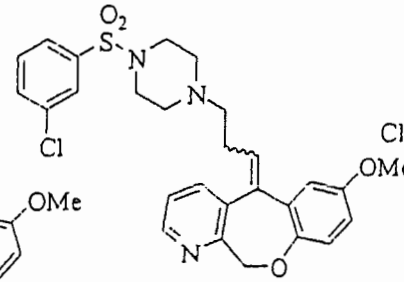
Example 188



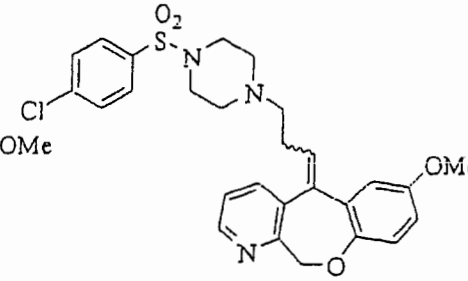
Example 189



Example 190

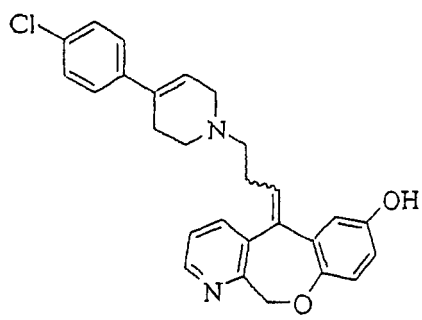


Example 191

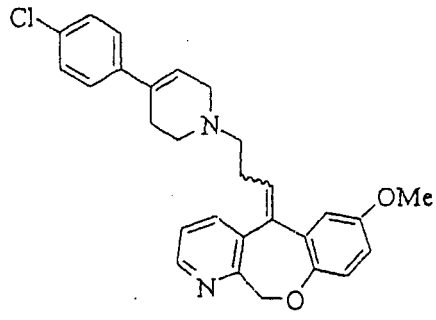


Example 192

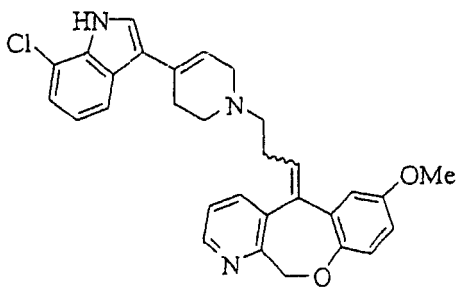
Figure 6S



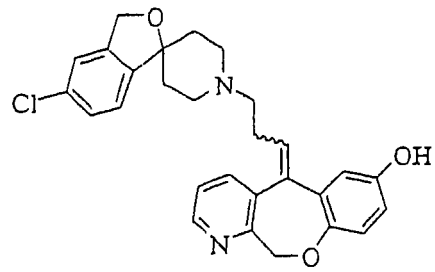
Example 193



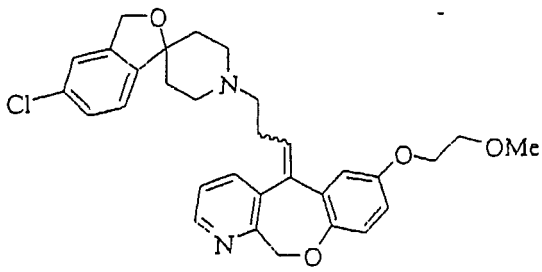
Example 194



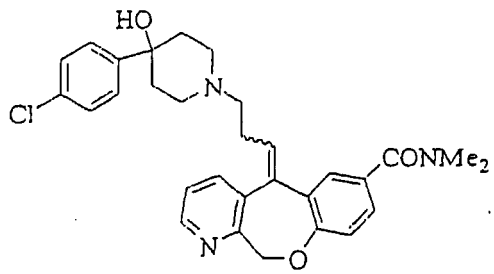
Example 195



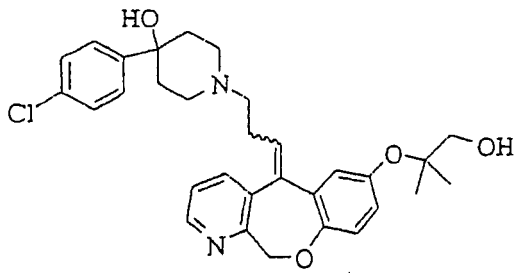
Example196



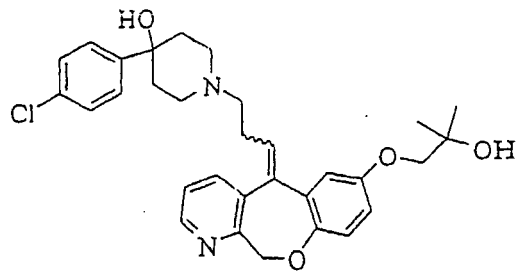
Example 197



Example 198

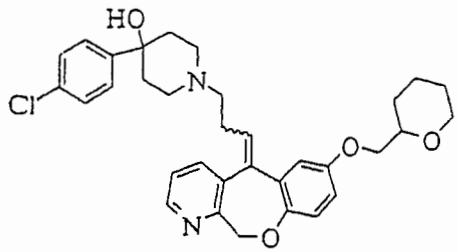


Example 199

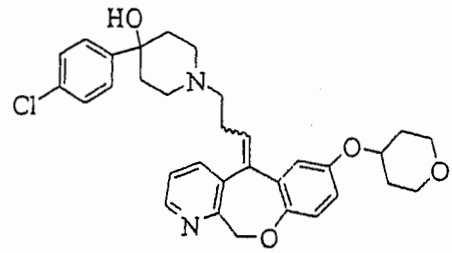


Example 200

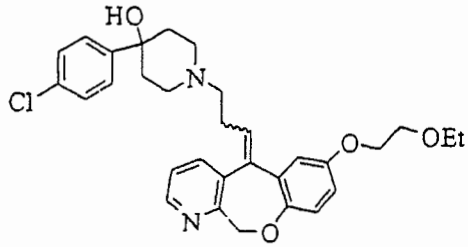
Figure 6T



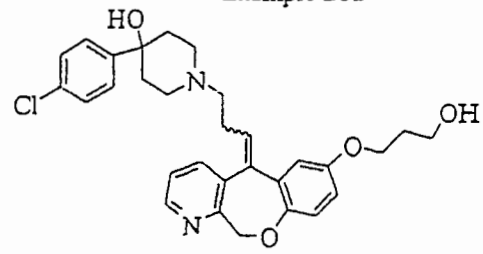
Example 201



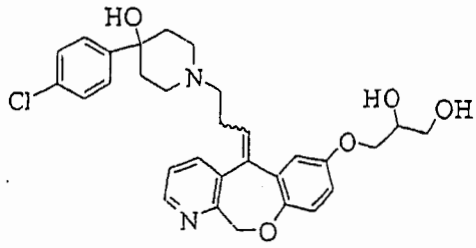
Example 202



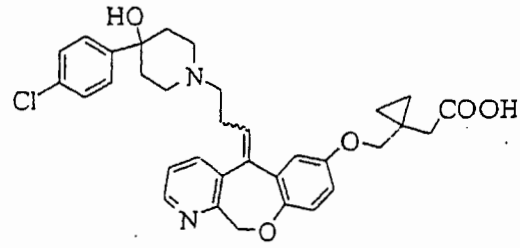
Example 203



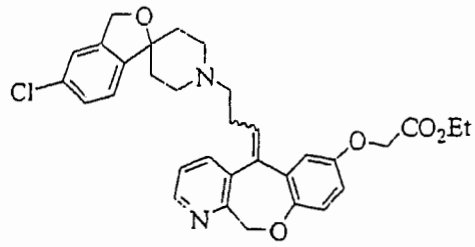
Example 204



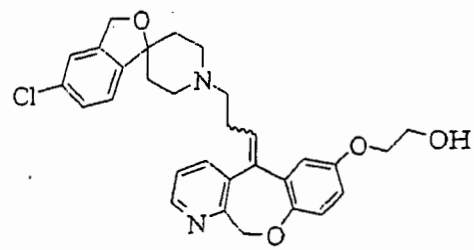
Example 205



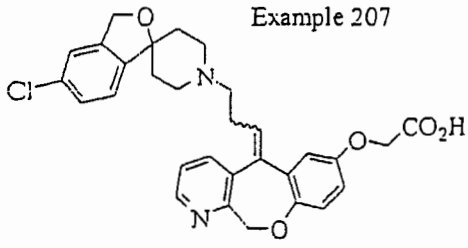
Example 206



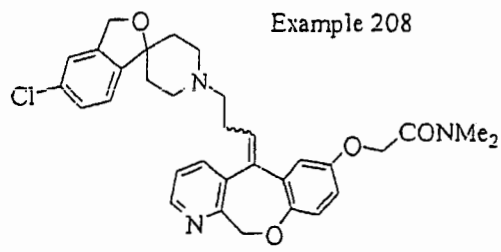
Example 207



Example 208

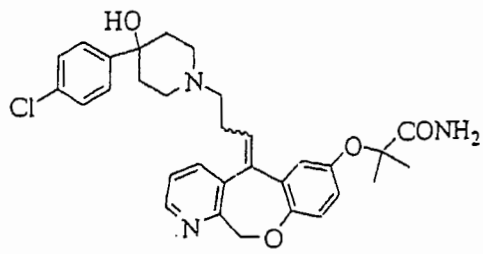


Example 209

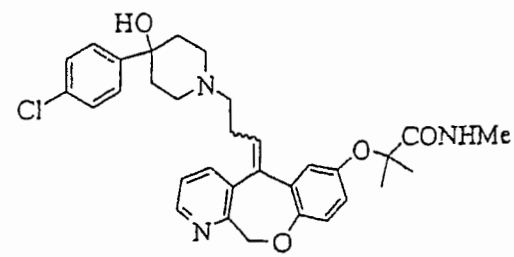


Example 210

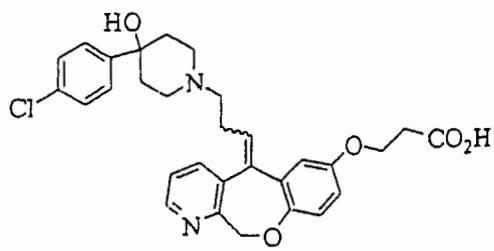
Figure 6U



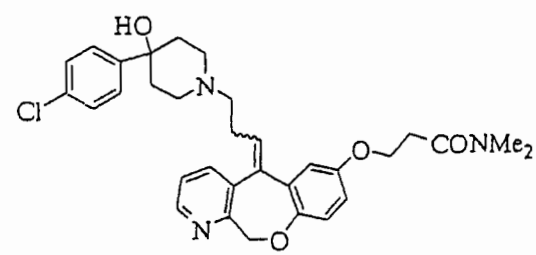
Example 211



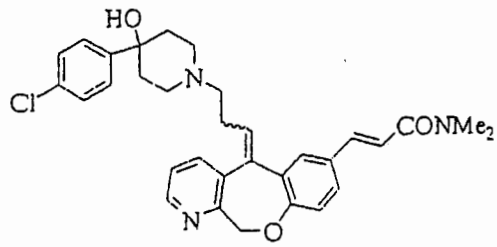
Example 212



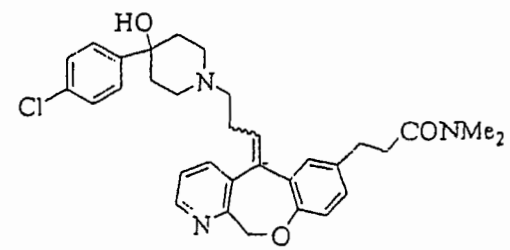
Example 213



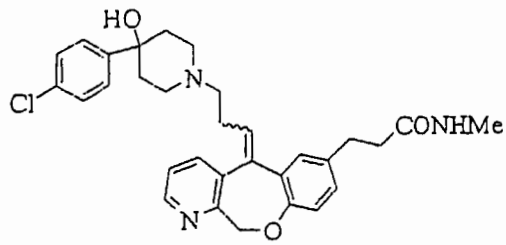
Example 214



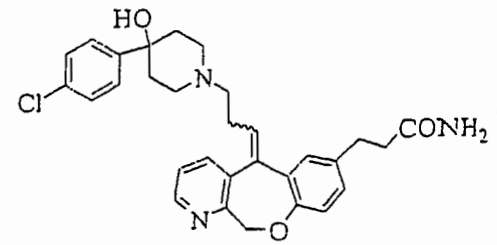
Example 215



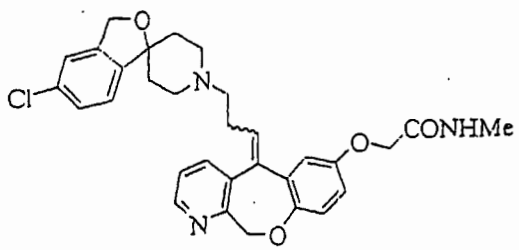
Example 216



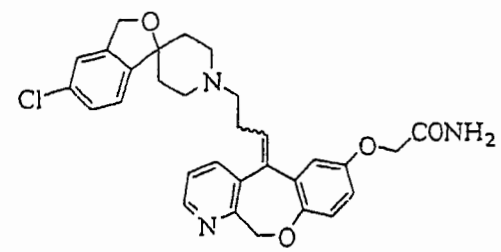
Example 217



Example 218

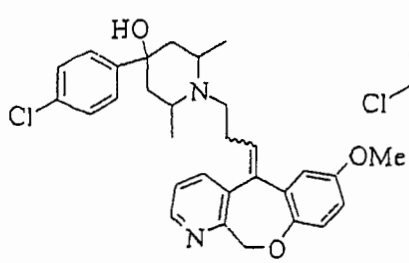


Example 219

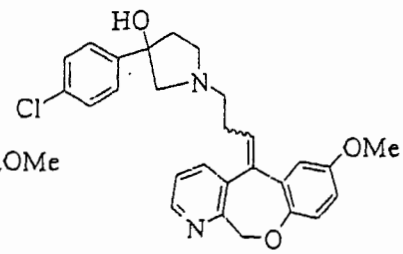


Example 220

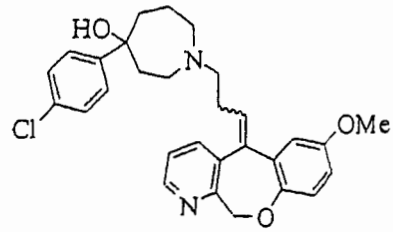
Figure 6V



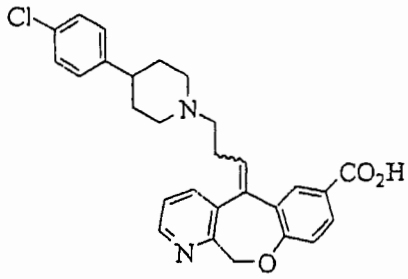
Example 221



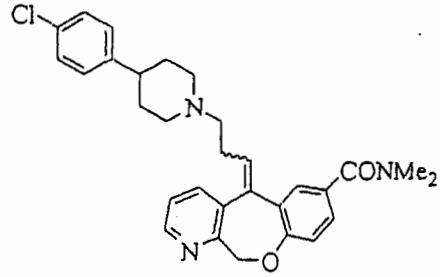
Example 222



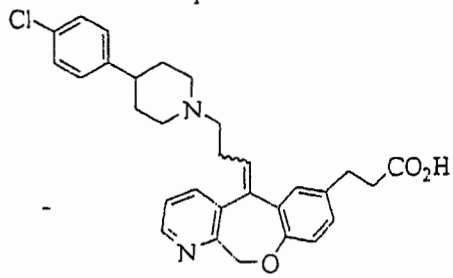
Example 223



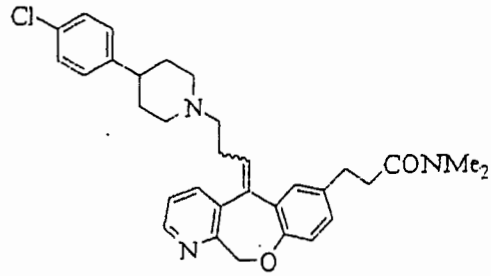
Example 224



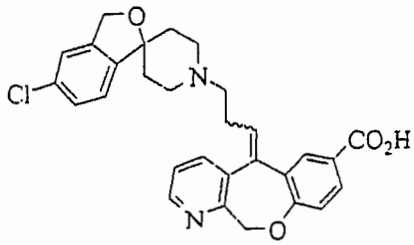
Example 225



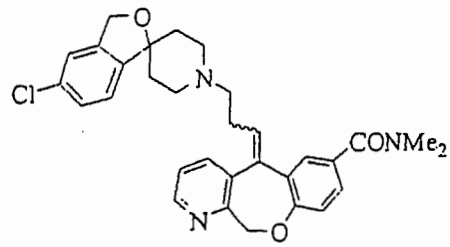
Example 226



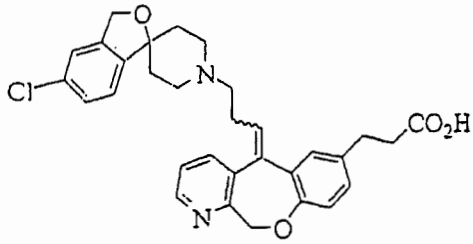
Example 227



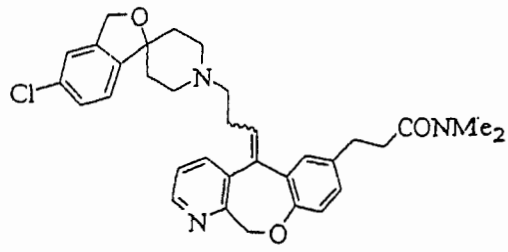
Example 228



Example 229

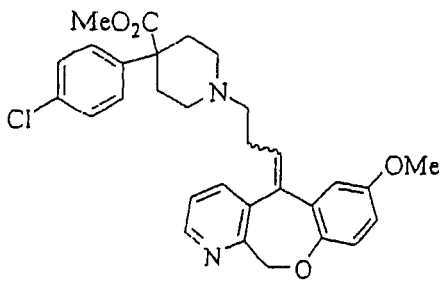


Example 230

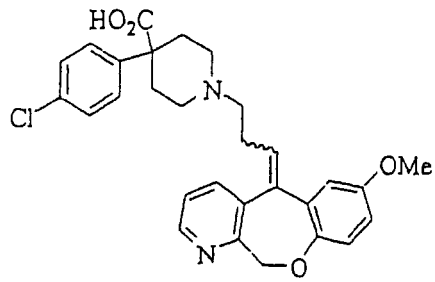


Example 231

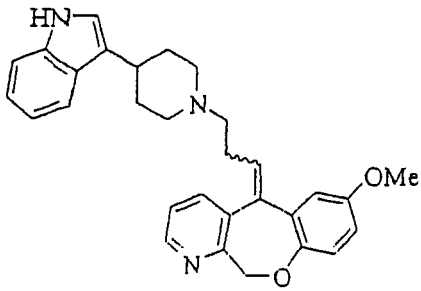
Figure 6W



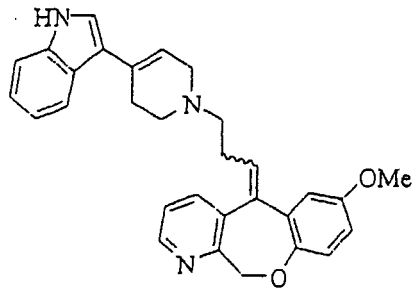
Example 232



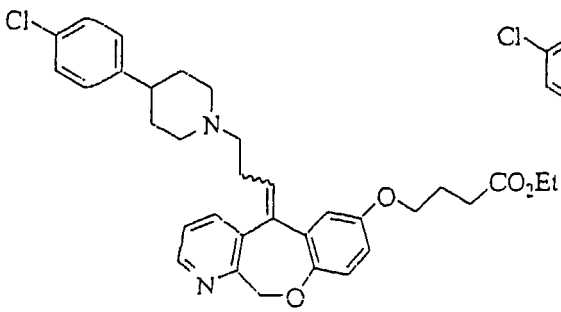
Example 233



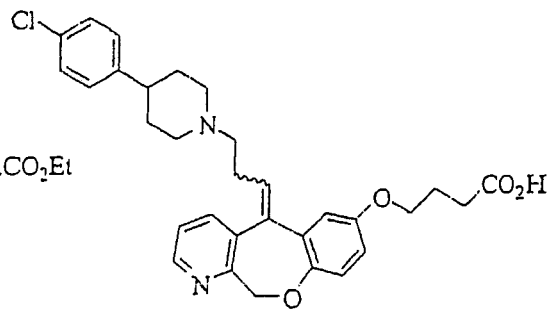
Example 234



Example 235

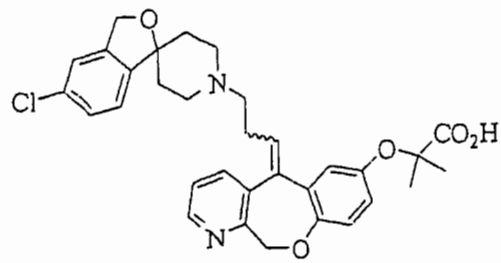


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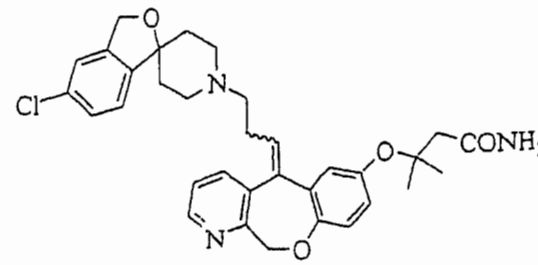


Example 237

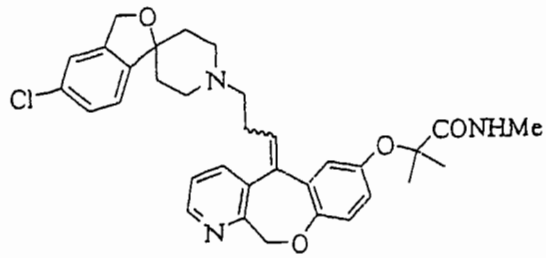
Figure 6X



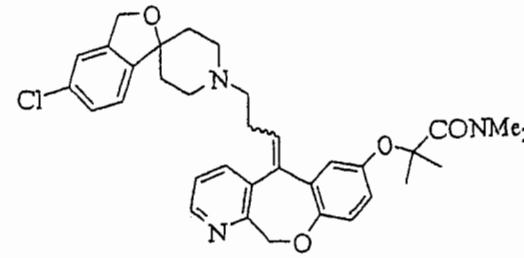
Example 238



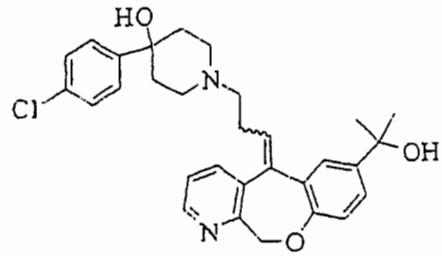
Example 239



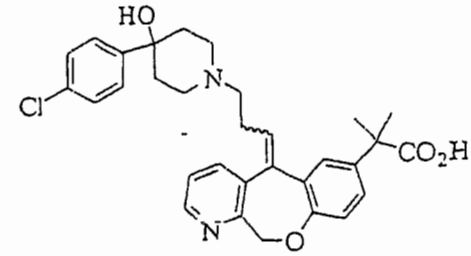
Example 240



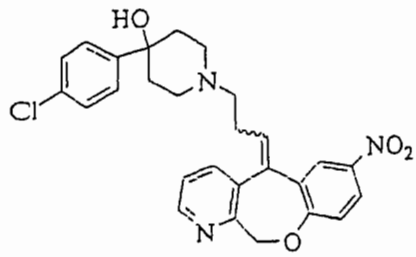
Example 241



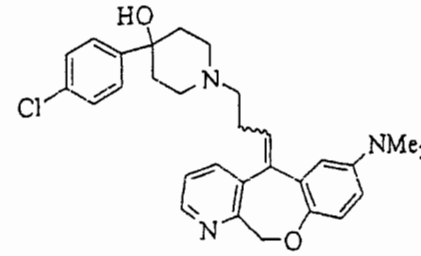
Example 242



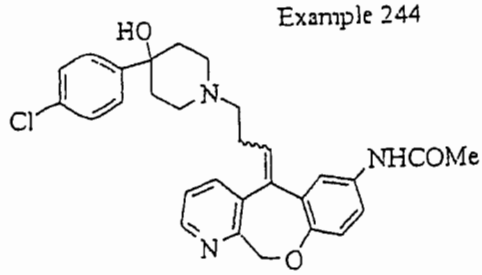
Example 243



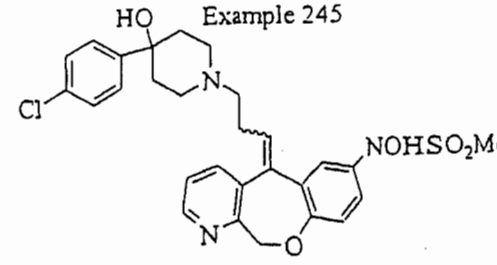
Example 244



Example 245

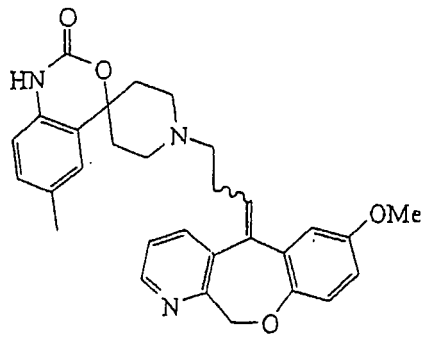


Example 246



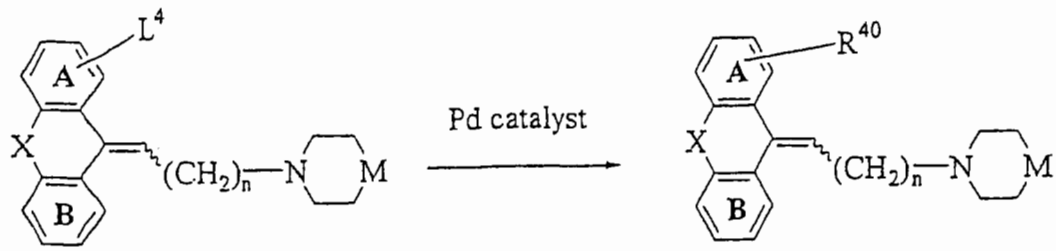
Example 247

Figure 6Y



Example 248

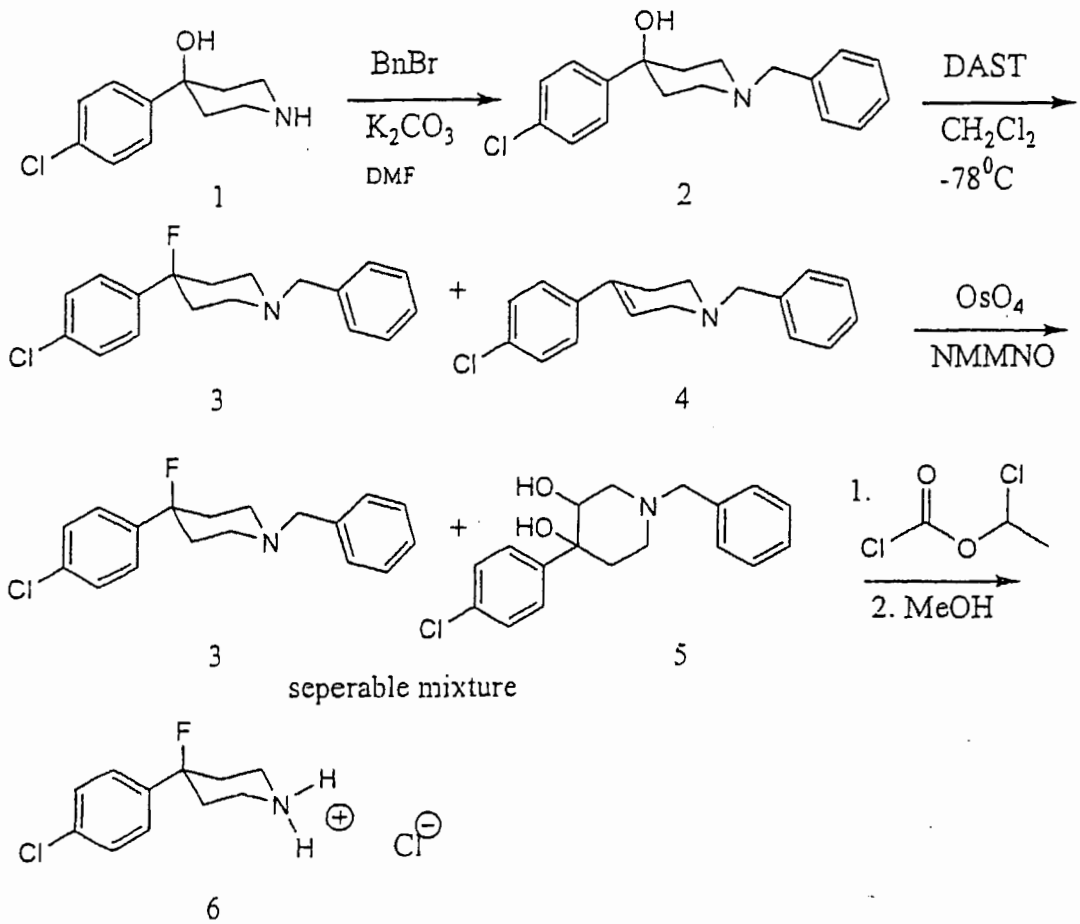
Figure 6Z



(I-f) (I-b)

Figure 7

Fig. 8a



seperable mixture

6

Fig. 8b

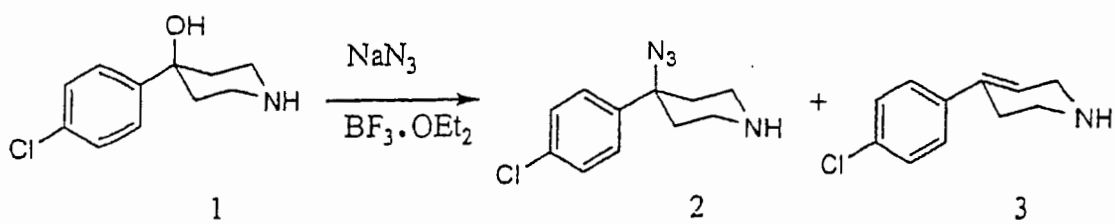


Fig 8c.

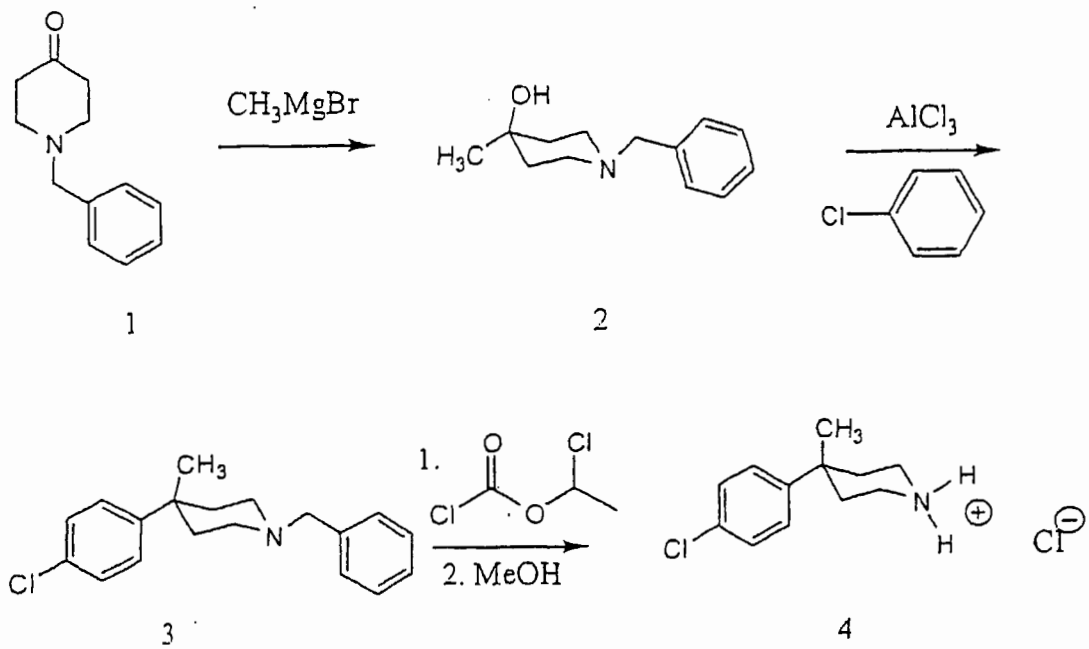
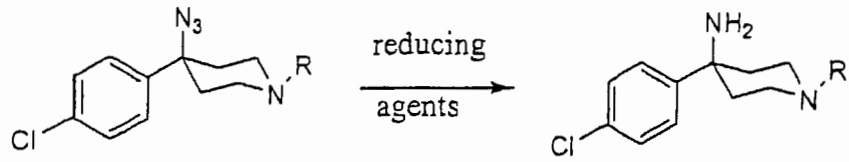

O
N
CH3MgBr
OH
H3C
N
AlCl3
Cl
1
2
CH3
N
Cl
1.
O
Cl
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2. MeOH
CH3
N
H
H
Cl
Cl
3
4

Fig. 9a



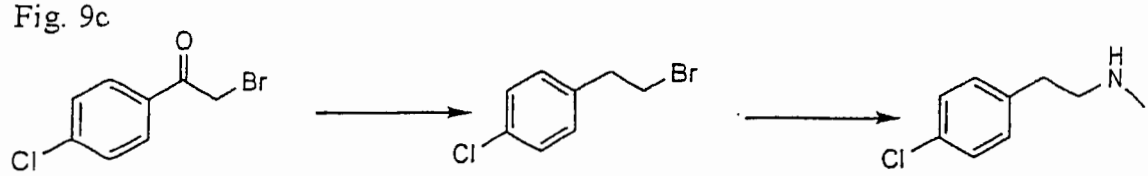
1 2

Fig. 9b



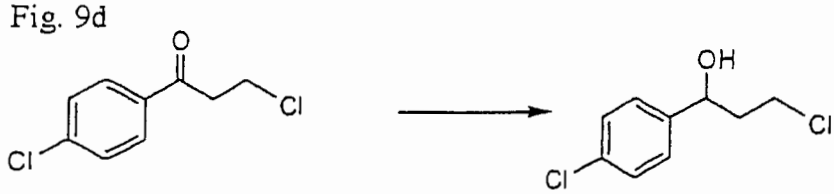
1 2

Fig. 9c



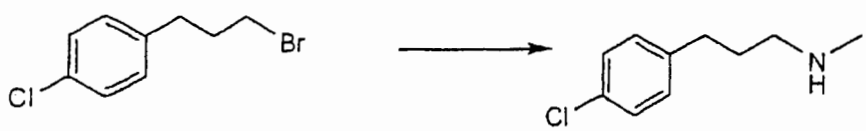
1 2 3

Fig. 9d



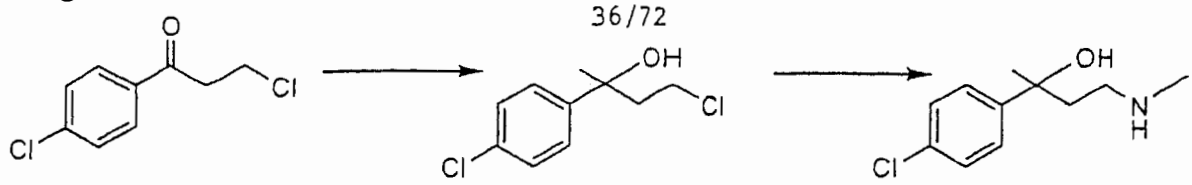
1 2

Fig. 9e



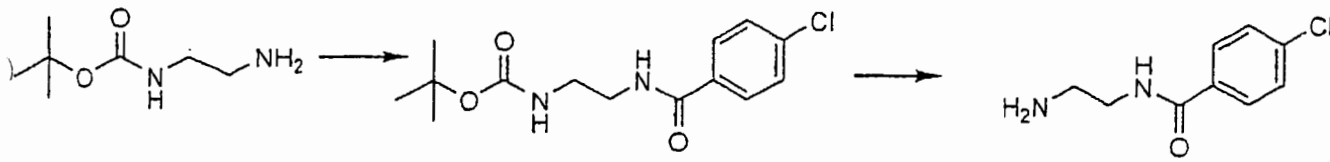
1 2

Fig. 10a



1 2 3

Fig. 10b



1 2 3

Fig. 10c

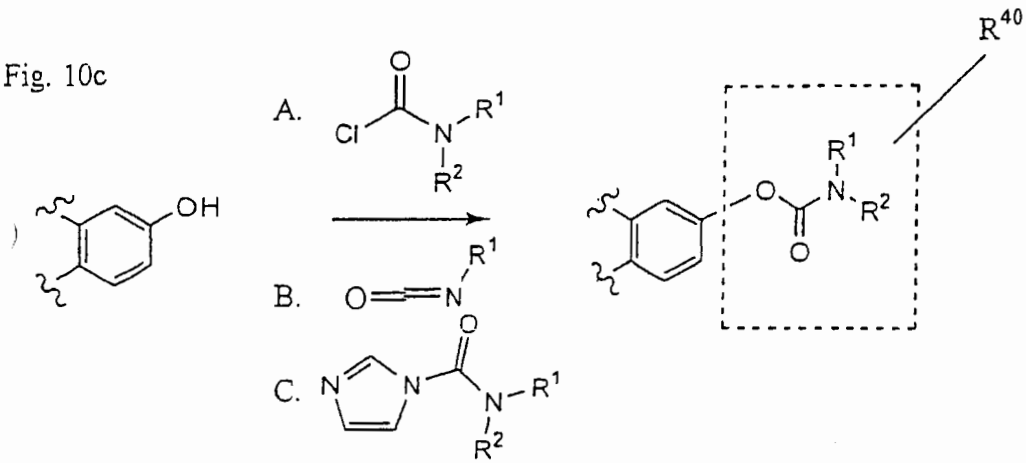
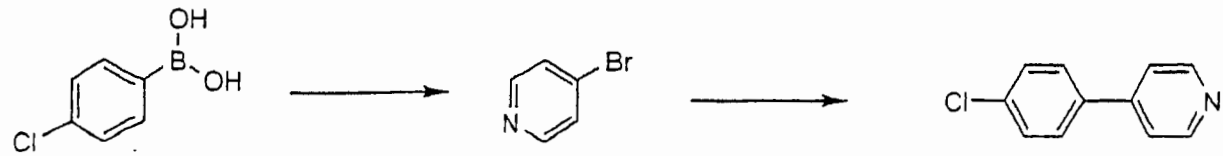
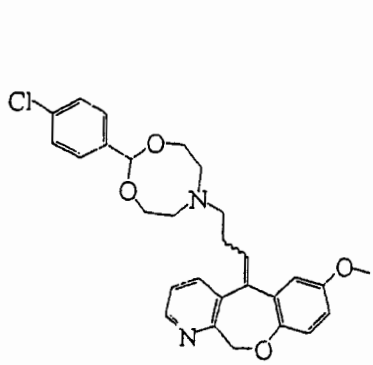


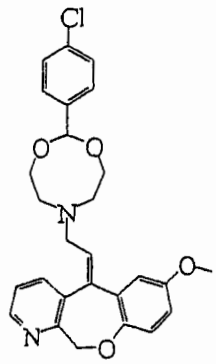
Fig. 10d



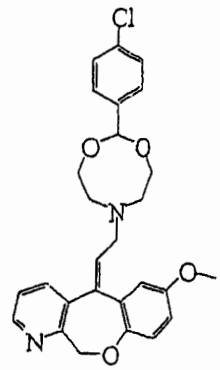
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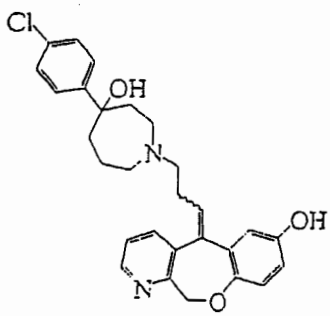
Example 249



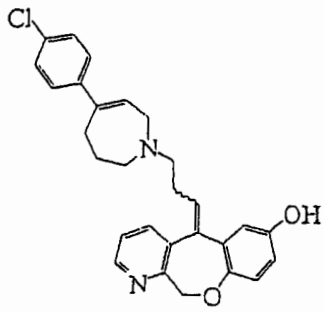
Example 250



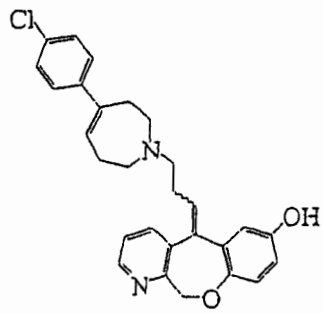
Example 251



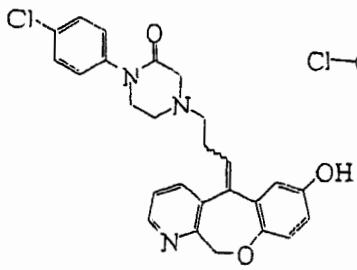
Example 252



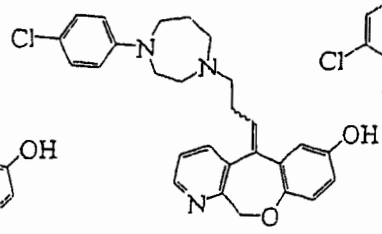
Example 253



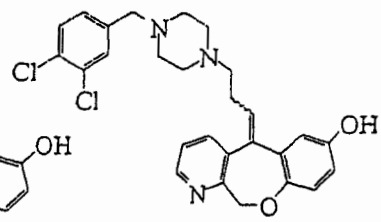
Example 254



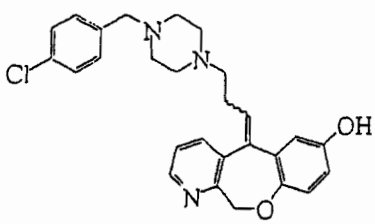
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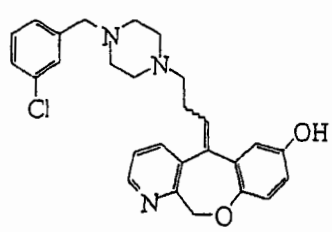
Example 256



Example 257

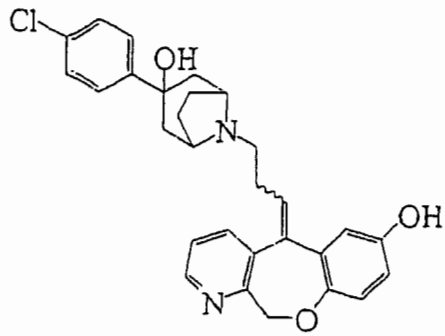


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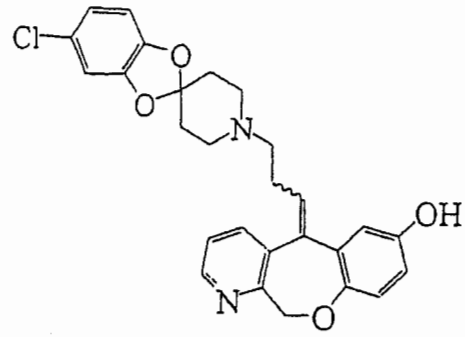


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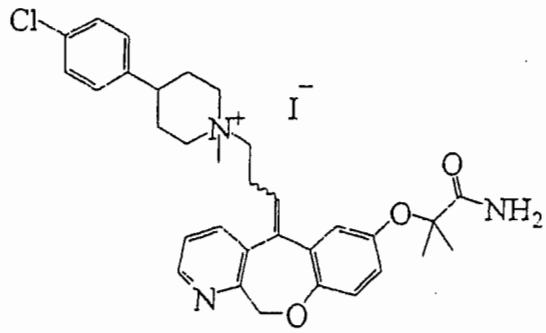
Figure 11A



Example 260

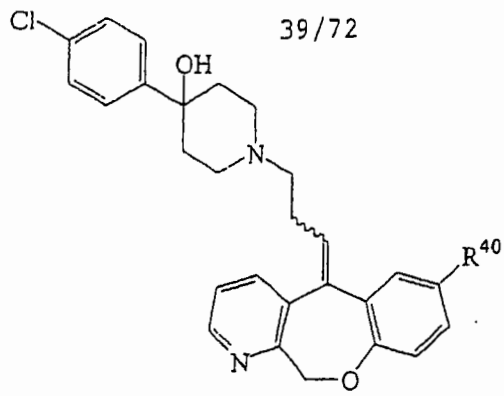


Example 261



Example 262

Figure 11B



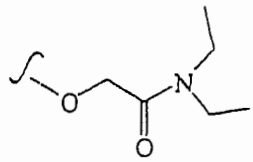
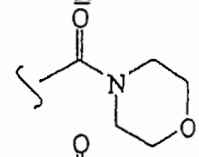
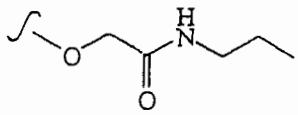
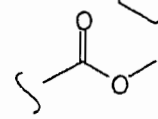
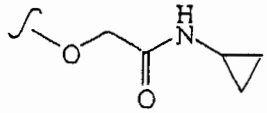
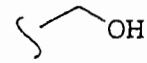
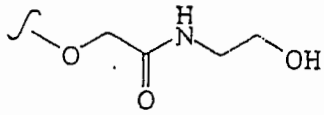
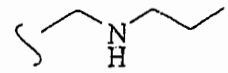
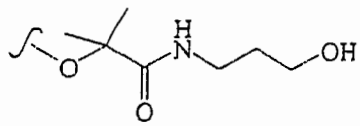
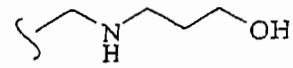
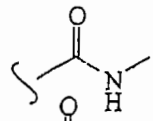
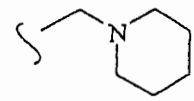
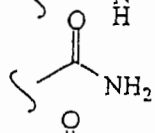
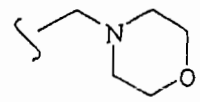
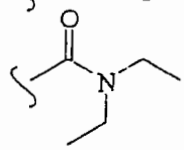
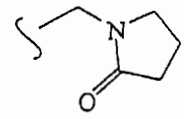
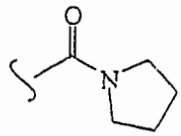
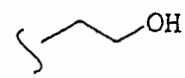
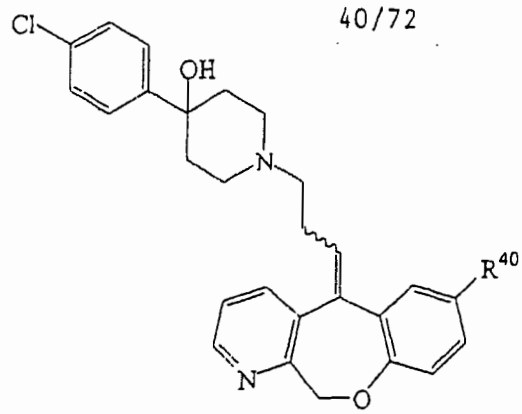
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Example 270		Example 279	
Example 271		Example 280	

Figure 11C



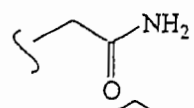
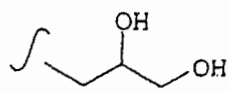
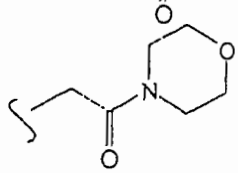
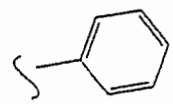
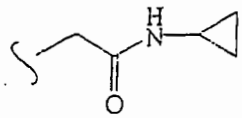
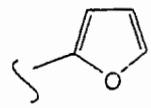
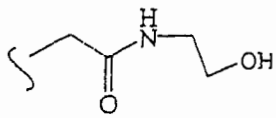
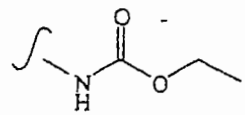
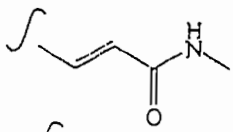
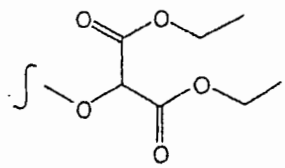
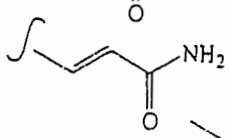
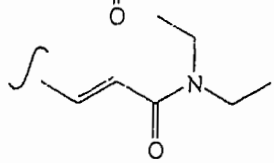
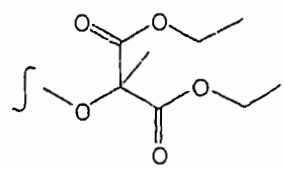
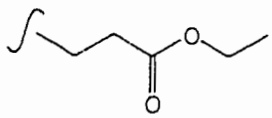
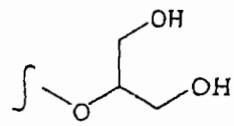
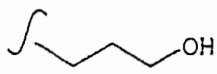
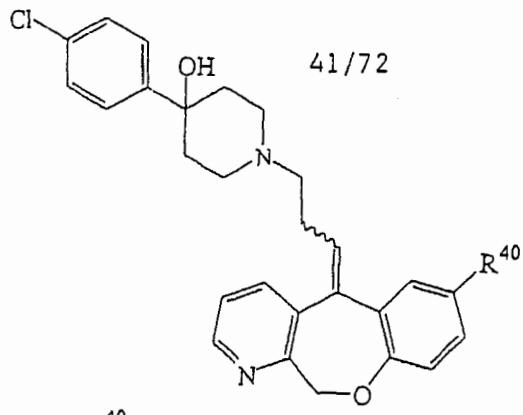
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Example 289			

Figure 11D



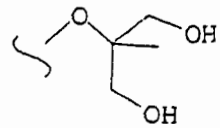
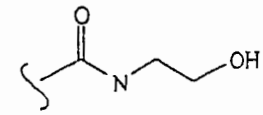
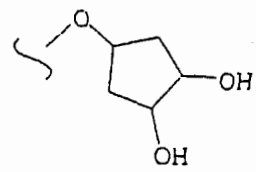
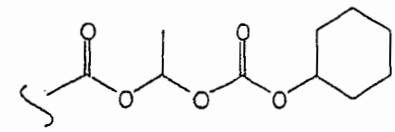
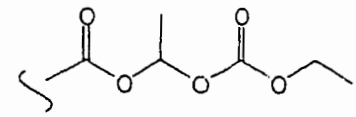
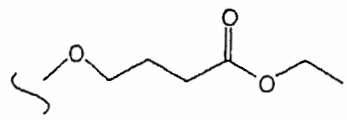
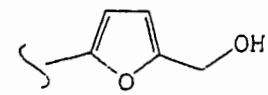
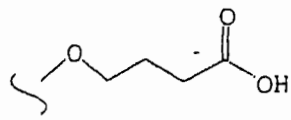
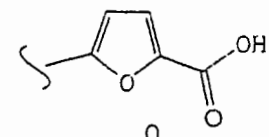
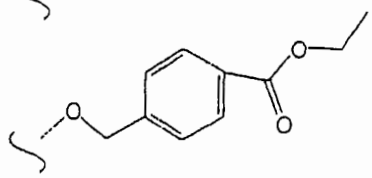
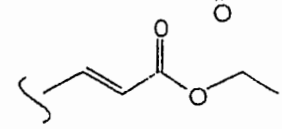
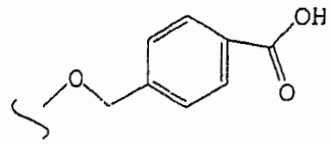
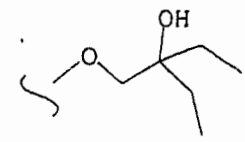
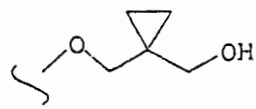
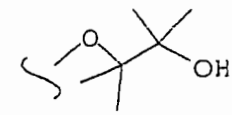
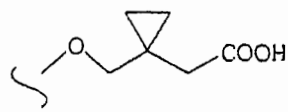
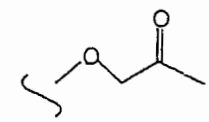
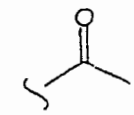
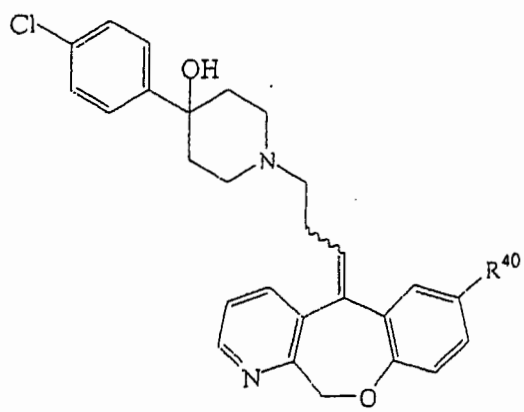
	R^{40}		R^{40}
Example 297		Example 305	
Example 298		Example 306	
		Example 307	
Example 299		Example 308	
Example 300		Example 309	
Example 301		Example 310	
Example 302		Example 311	
Example 303		Example 312	
Example 304		Example 313	
		Example 314	-CHO
		Example 315	

Figure 11E



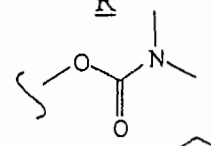
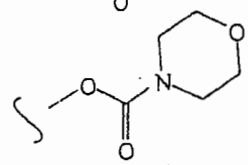
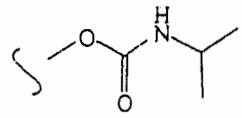
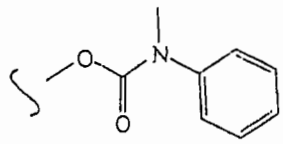
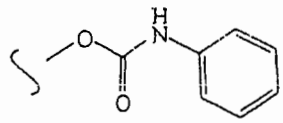
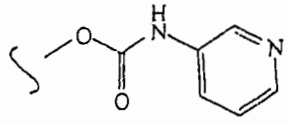
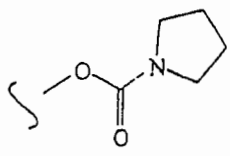
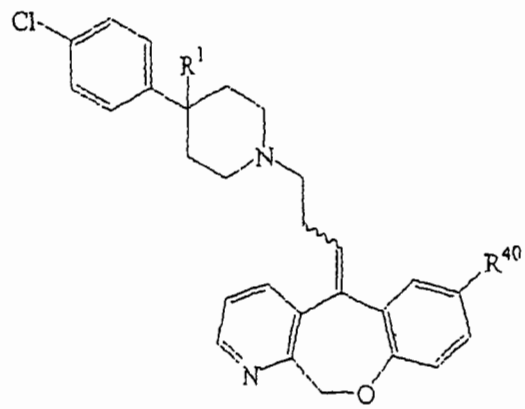
	R^{40}
Example 316	
Example 317	
Example 318	
Example 319	
Example 320	
Example 321	
Example 322	

Figure 11F



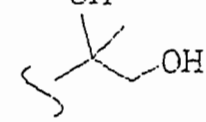
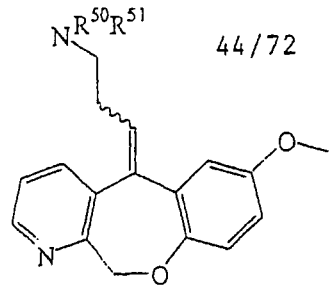
	R^1	R^{40}
Example 323	-CN	$-OCH_3$
Example 324	$-CH_2NH_2$	$-OCH_3$
Example 325	$-NH_2$	$-OCH_3$
Example 326	$-CH_3$	$-OCH_3$
Example 327	$-OCH_3$	$-OCH_3$
Example 328	-F	-OH
Example 329	$-CH_3$	-OH
Example 330	$-CH_3$	

Figure 11G



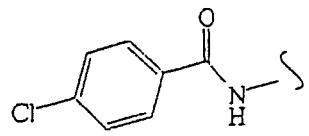
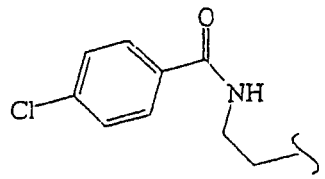
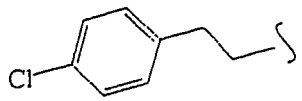
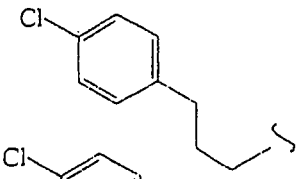
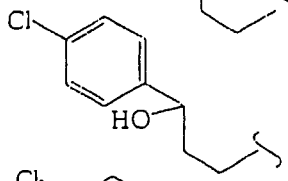
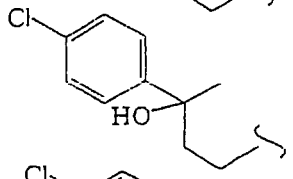
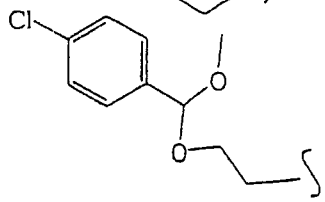
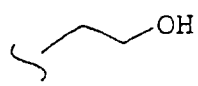
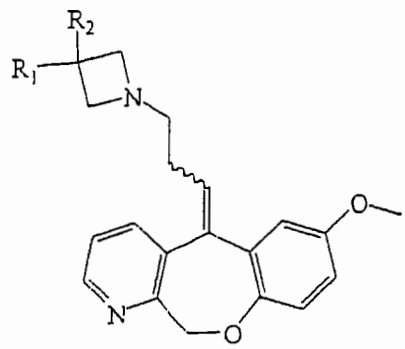
	R^{50}	R^{51}
Example 331		-H
Example 332		-H
Example 333		$-CH_3$
Example 334		$-CH_3$
Example 335		$-CH_3$
Example 336		$-CH_3$
Example 337		

Figure 11H



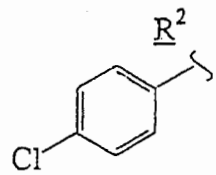
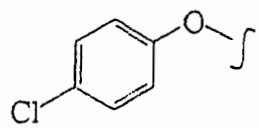
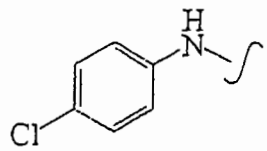
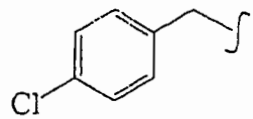
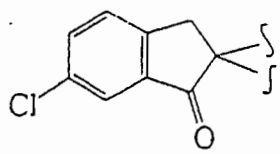
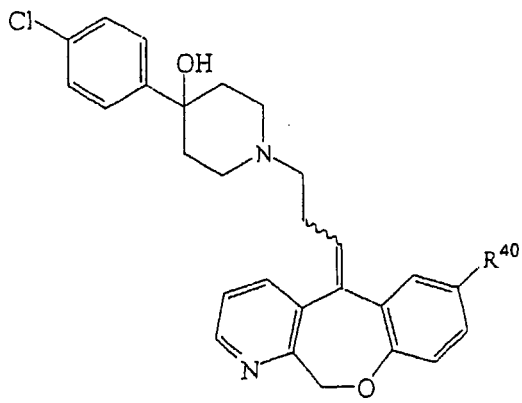
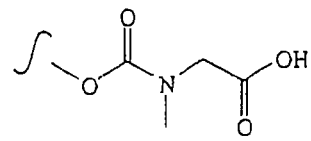
	R^1	R^2
Example 338	-OH	
Example 339	-H	
Example 340	-H	
Example 341	-OH	
Example 342		

Figure 11I



R40

Example 343 

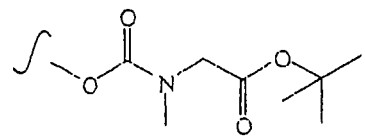
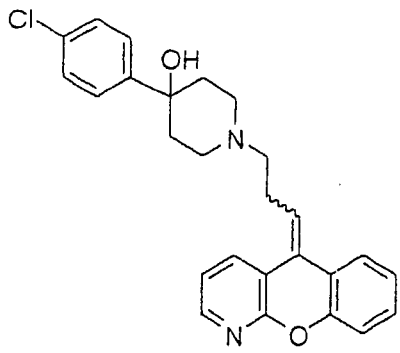
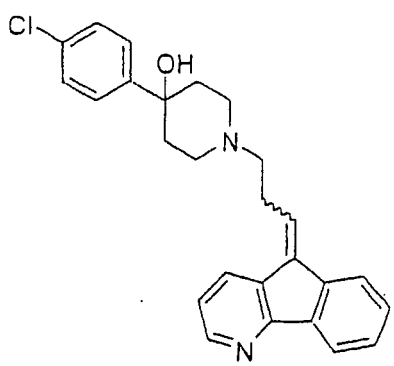
Example 344 

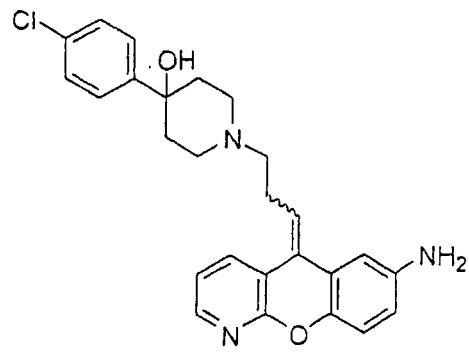
Figure 11J



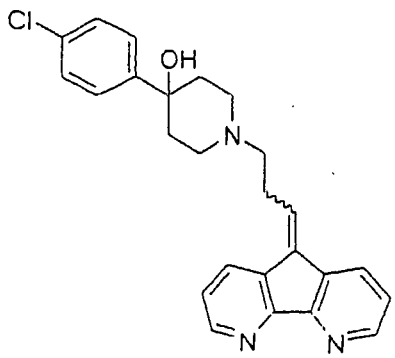
Example 345



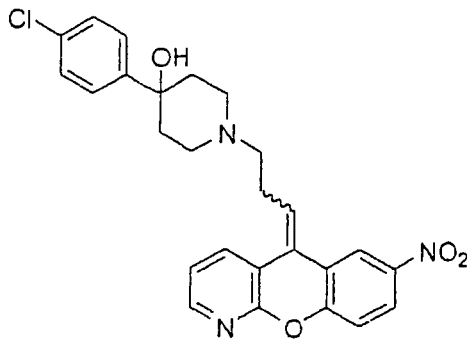
Example 346



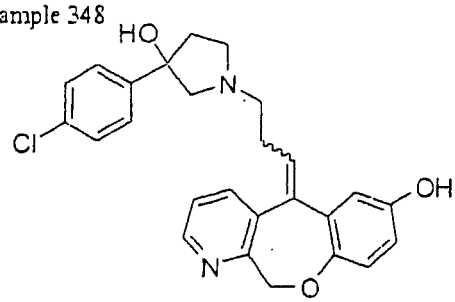
Example 347



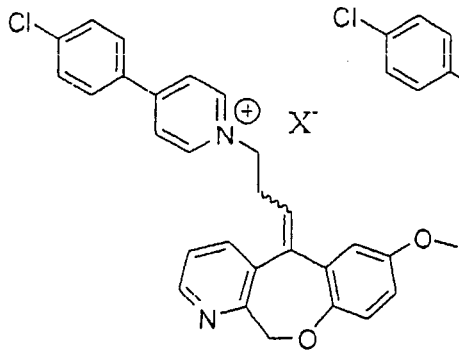
Example 348



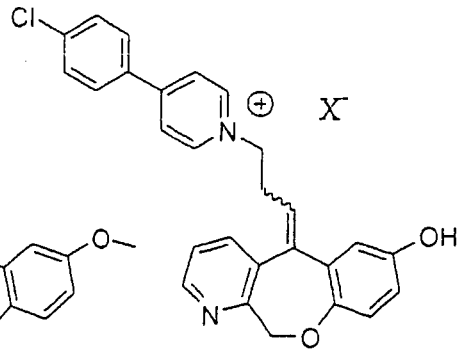
Example 349



Example 350

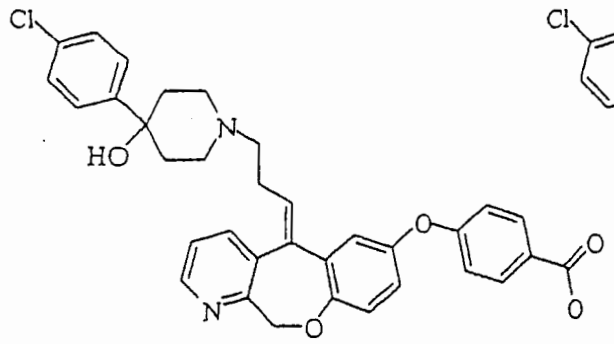


Example 351

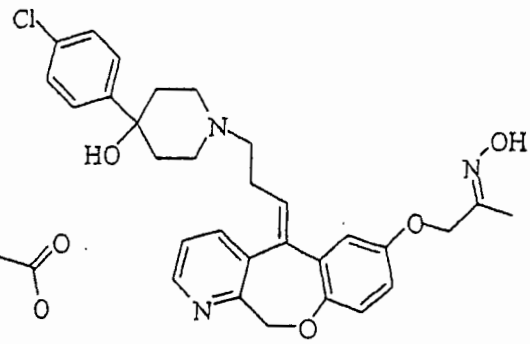


Example 352

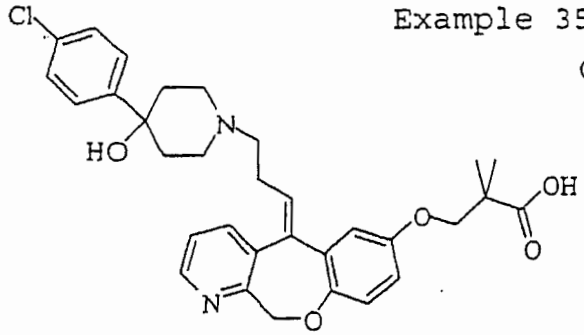
Figure 11K



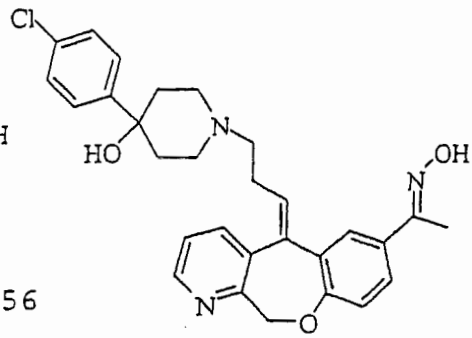
Example 354



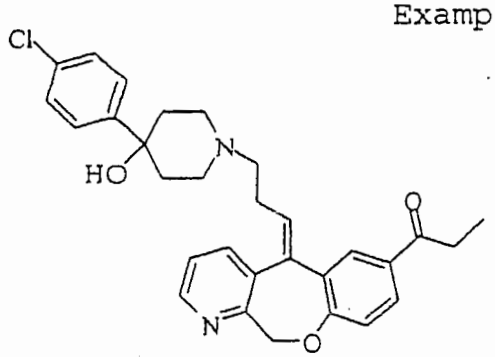
Example 355



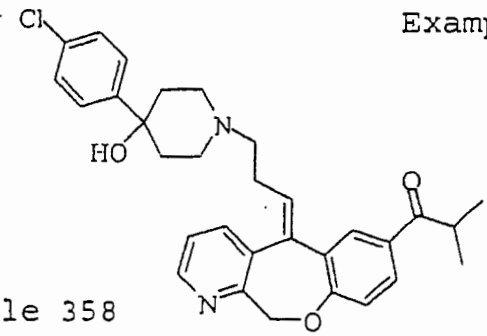
Example 356



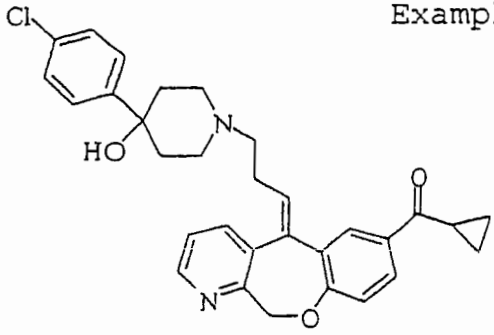
Example 357



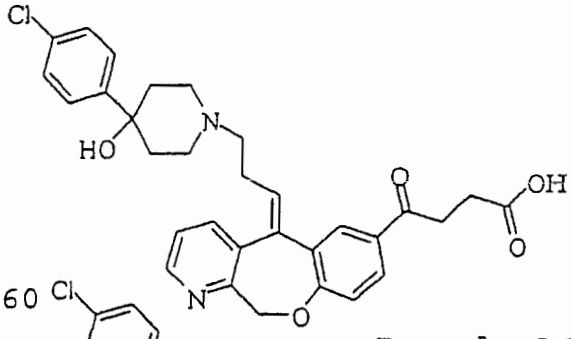
Example 358



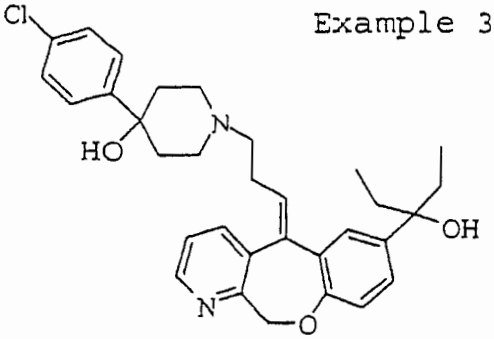
Example 359



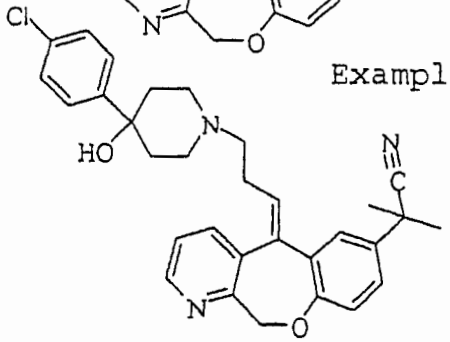
Example 360



Example 361

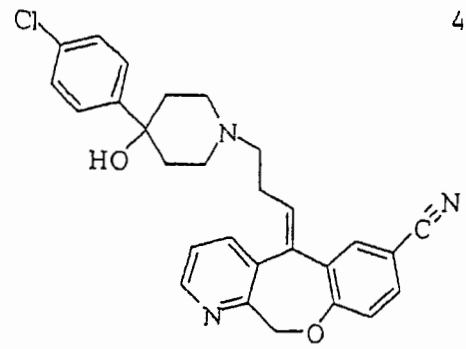


Example 362

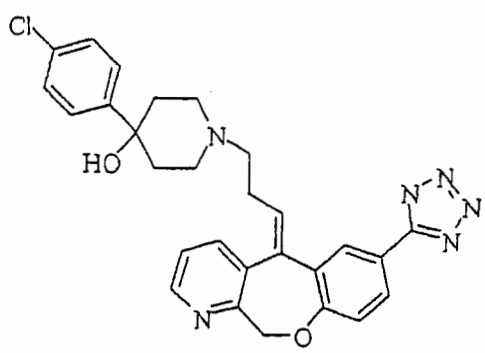


Example 363

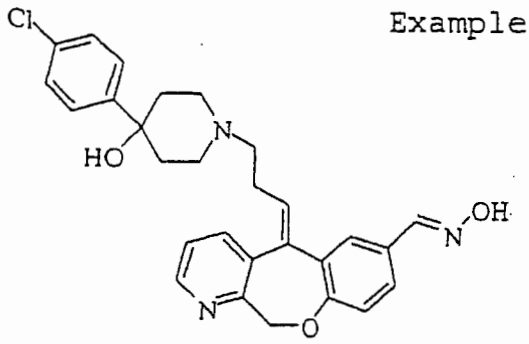
Figure 11L



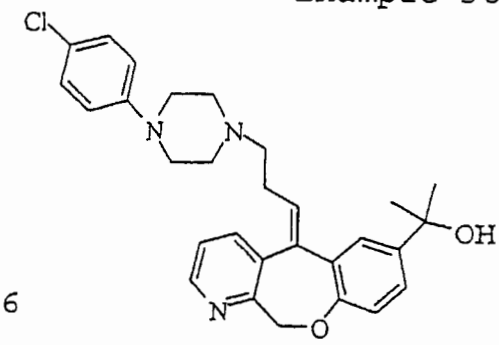
Example 364



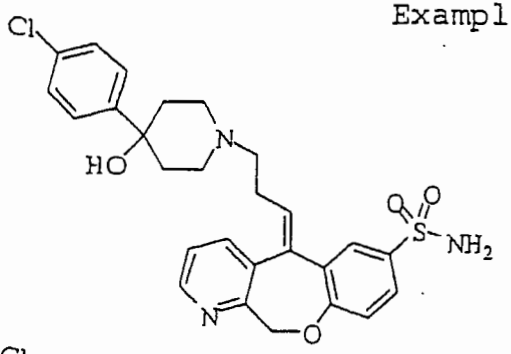
Example 365



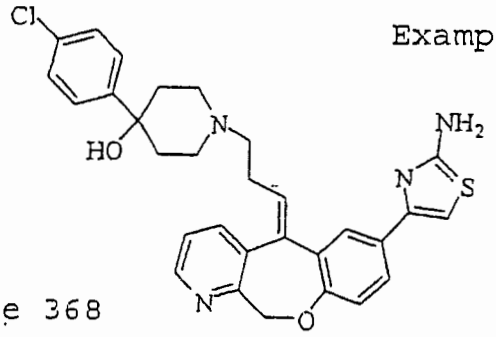
Example 366



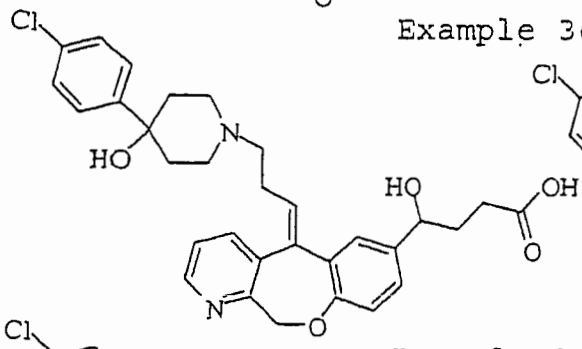
Example 367



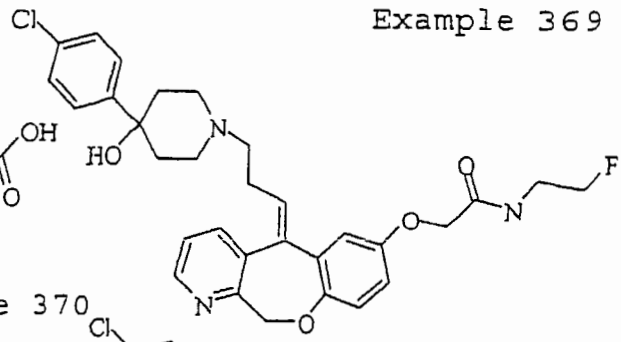
Example 368



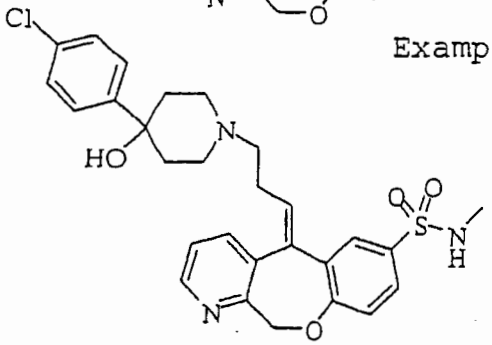
Example 369



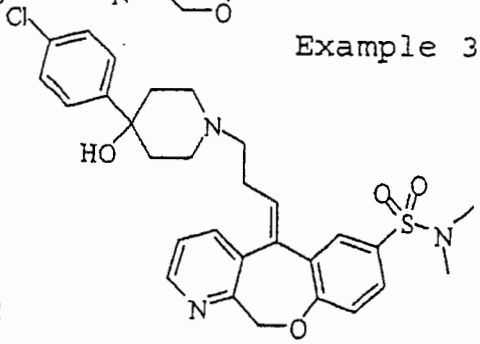
Example 370



Example 371

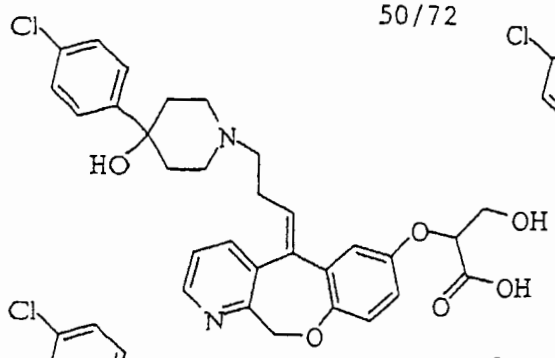


Example 372

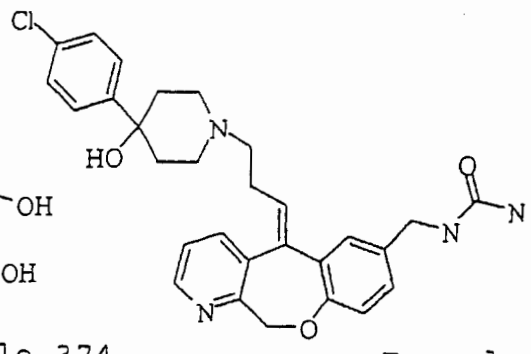


Example 373

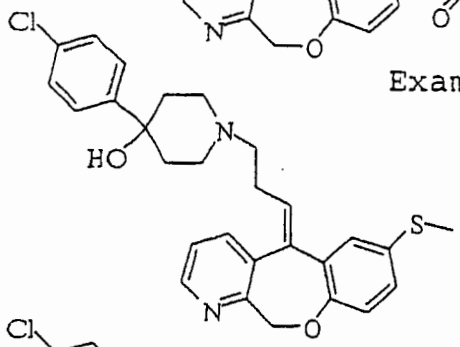
Figure 11M



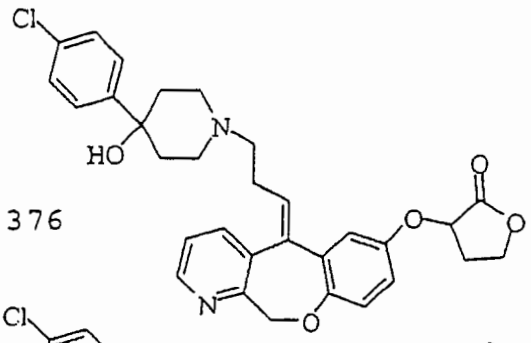
Example 374



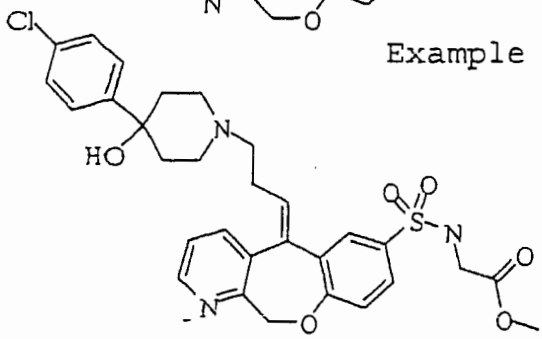
Example 375



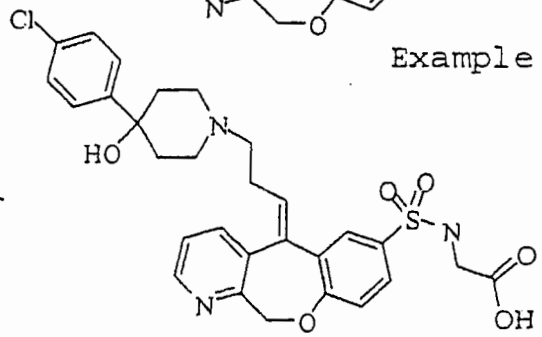
Example 376



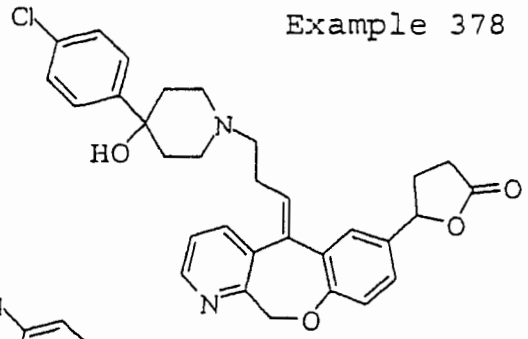
Example 377



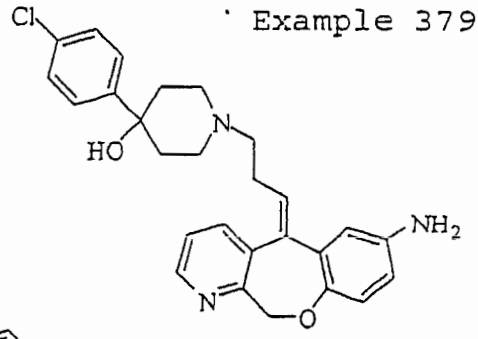
Example 378



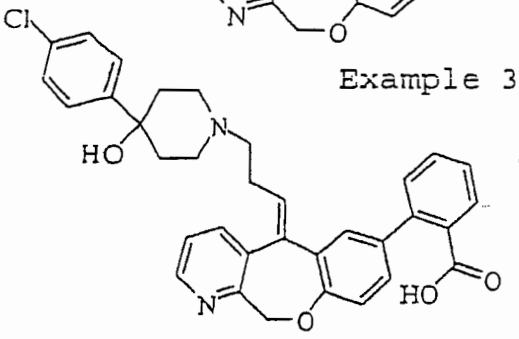
Example 379



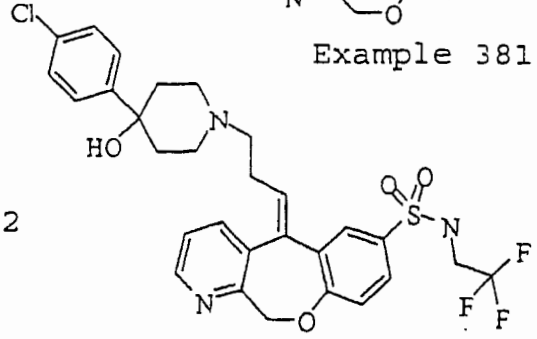
Example 380



Example 381

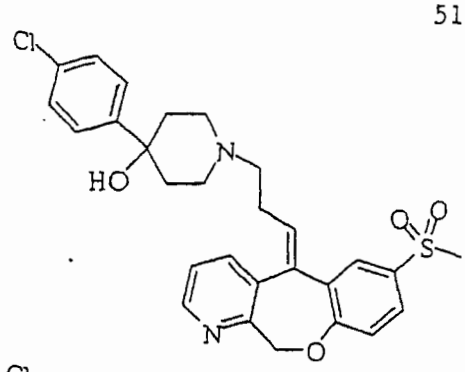


Example 382

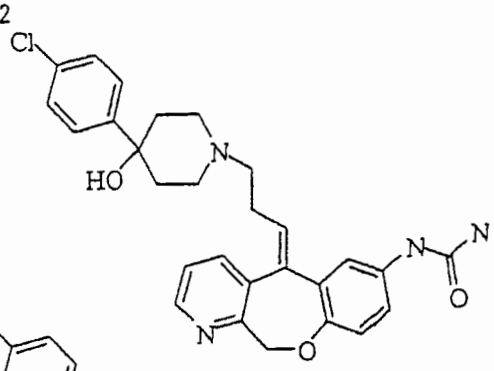


Example 383

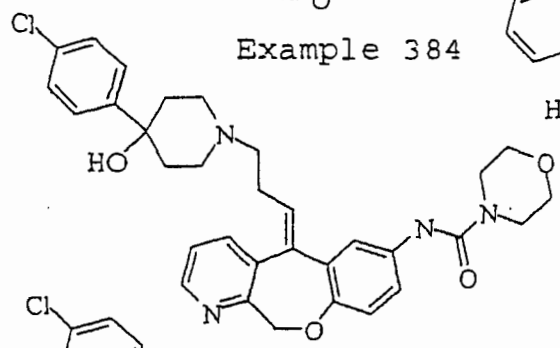
Figure 11N



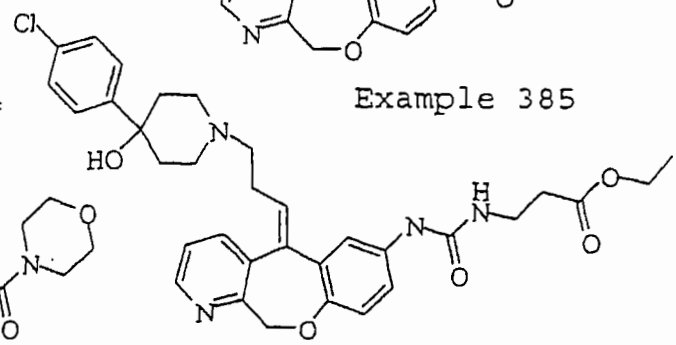
Example 384



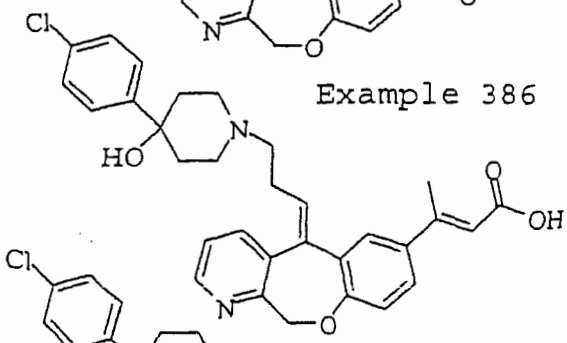
Example 385



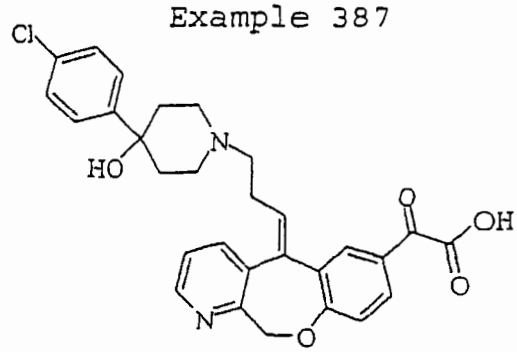
Example 386



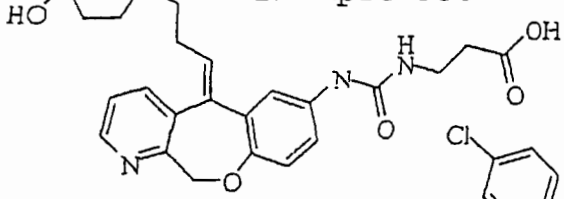
Example 387



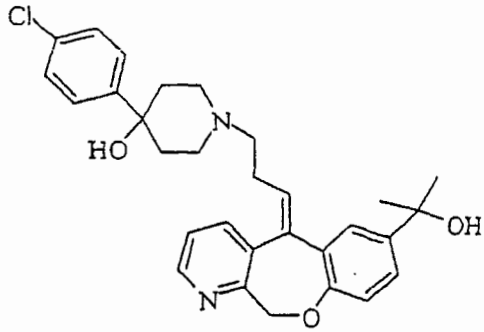
Example 388



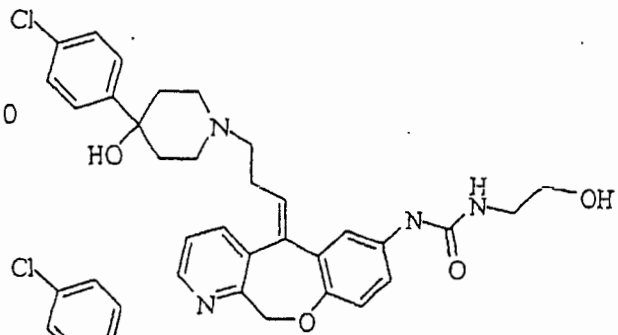
Example 389



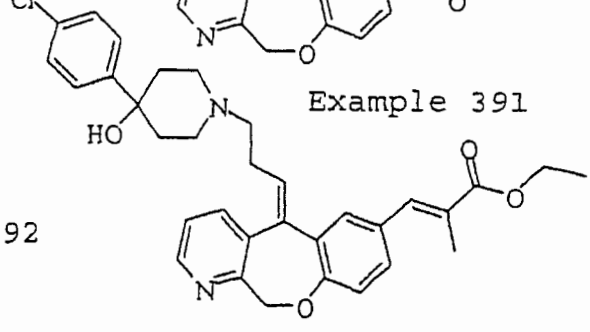
Example 390



Example 392

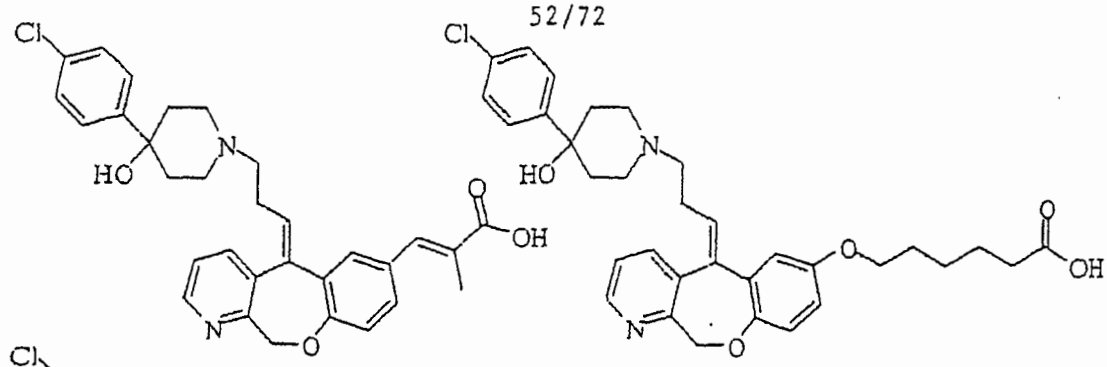


Example 391



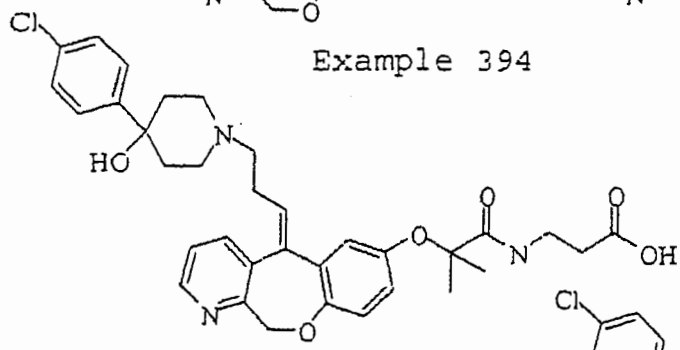
Example 393

Figure 11O

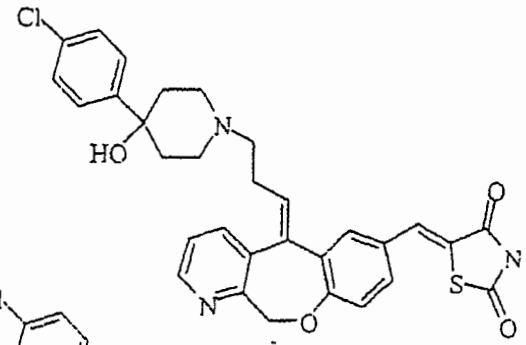


Example 394

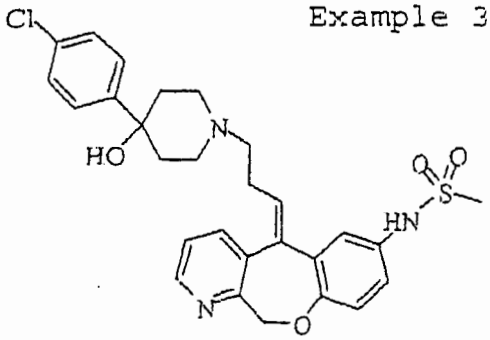
Example 395



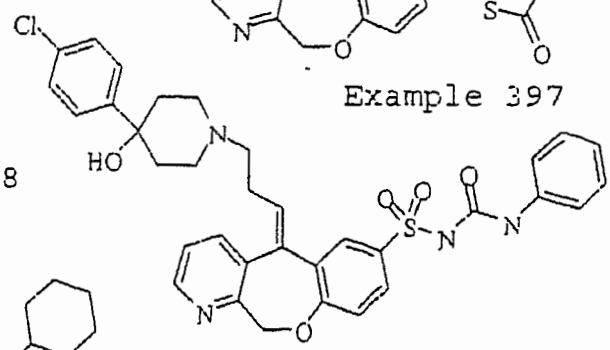
Example 396



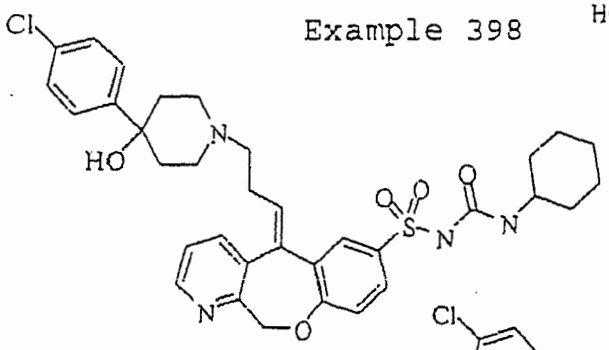
Example 397



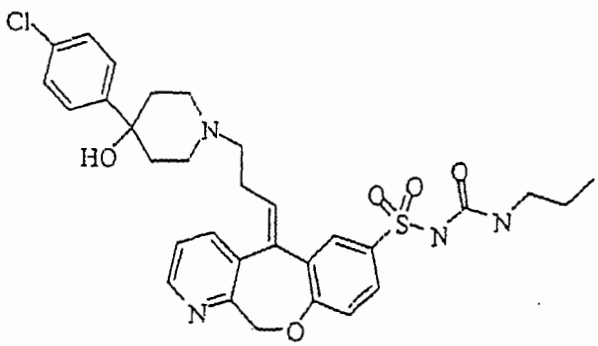
Example 398



Example 399



Example 400



Example 401

Figure 11P

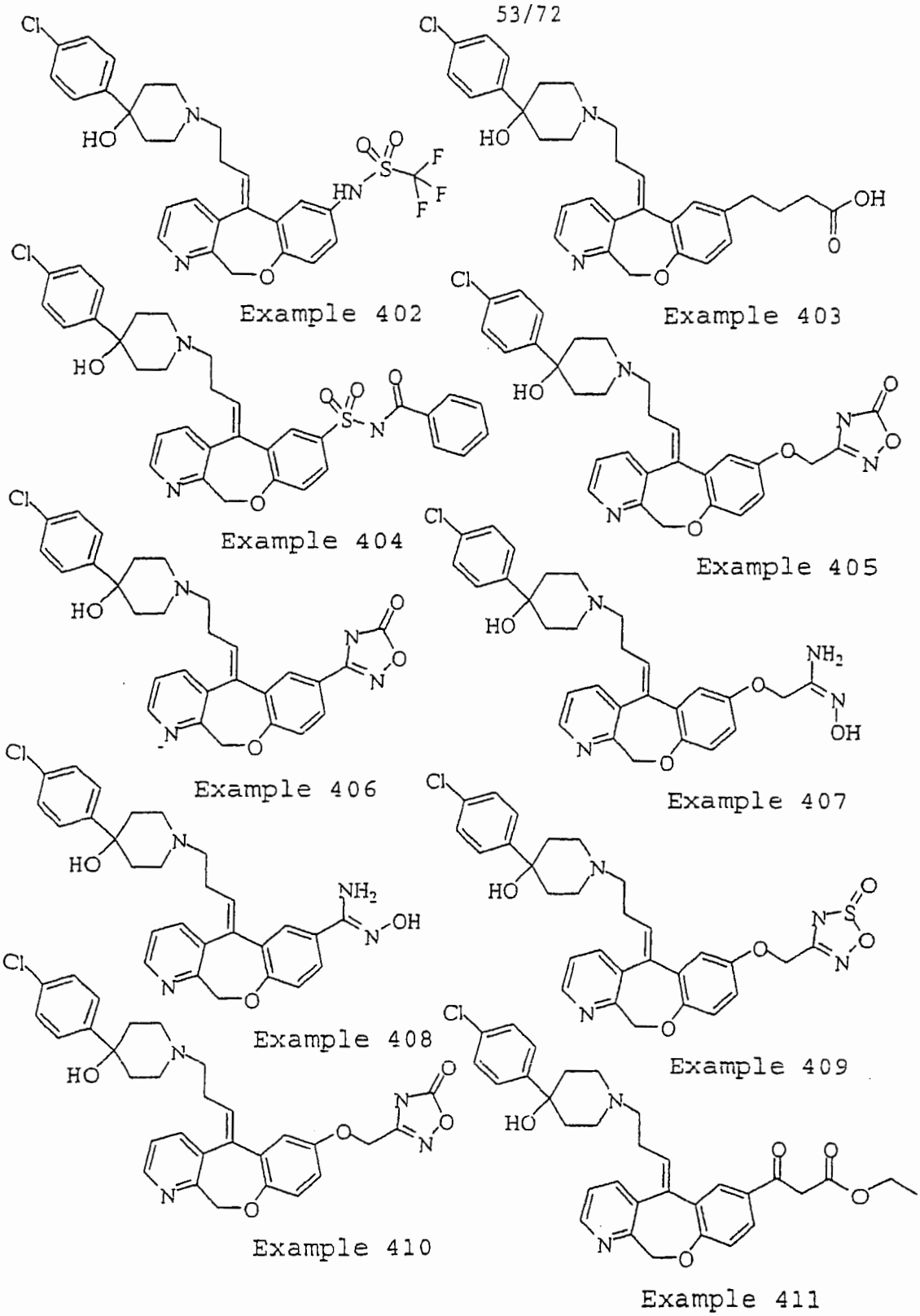
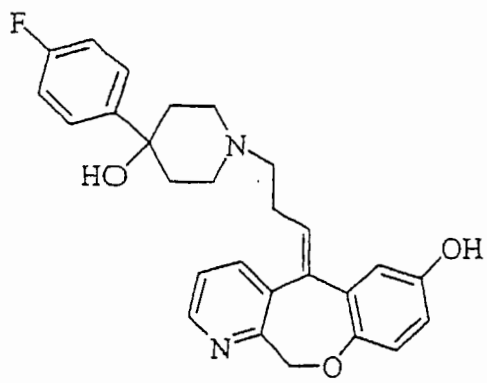
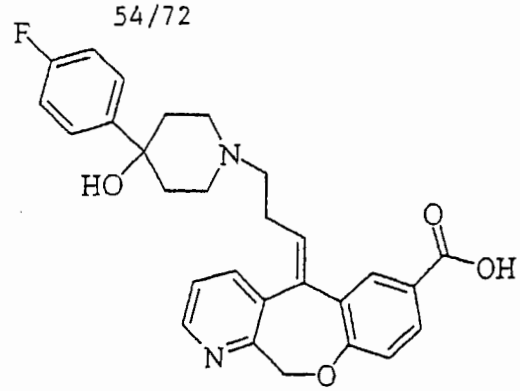

Example 402
Example 403
Example 404
Example 405
Example 406
Example 407
Example 408
Example 409
Example 410
Example 411

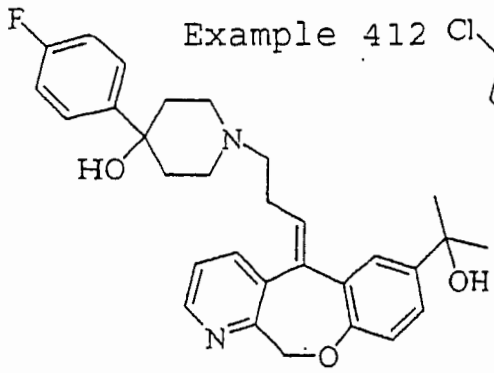
Figure 11Q



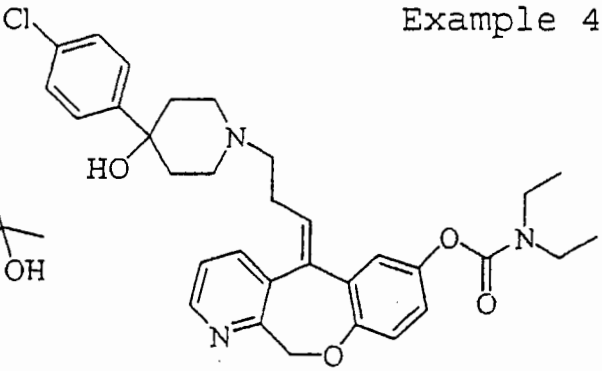
Example 412



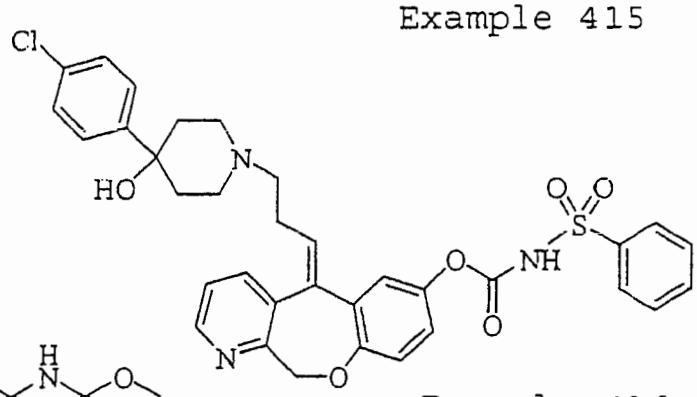
Example 413



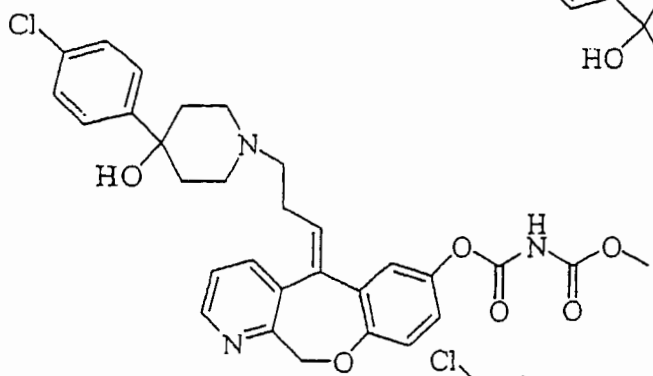
Example 414



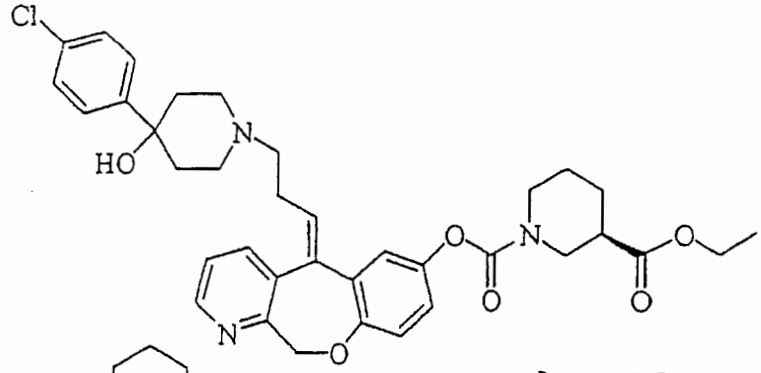
Example 415



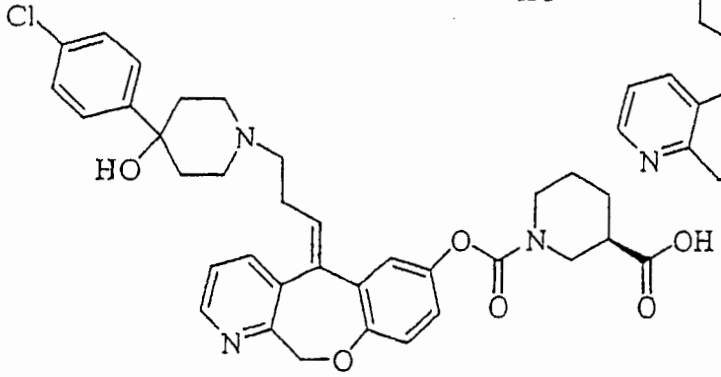
Example 416



Example 417

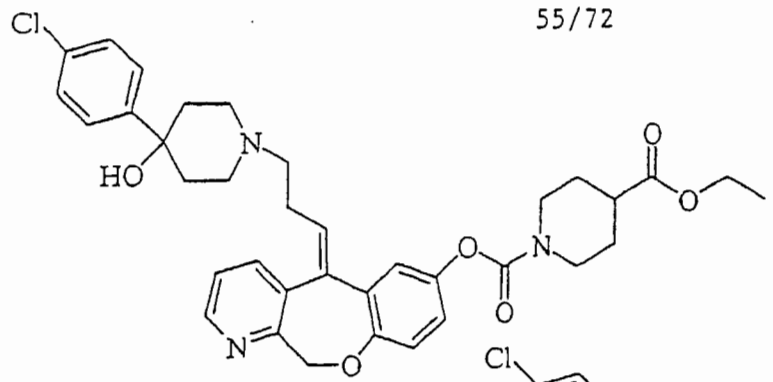


Example 418

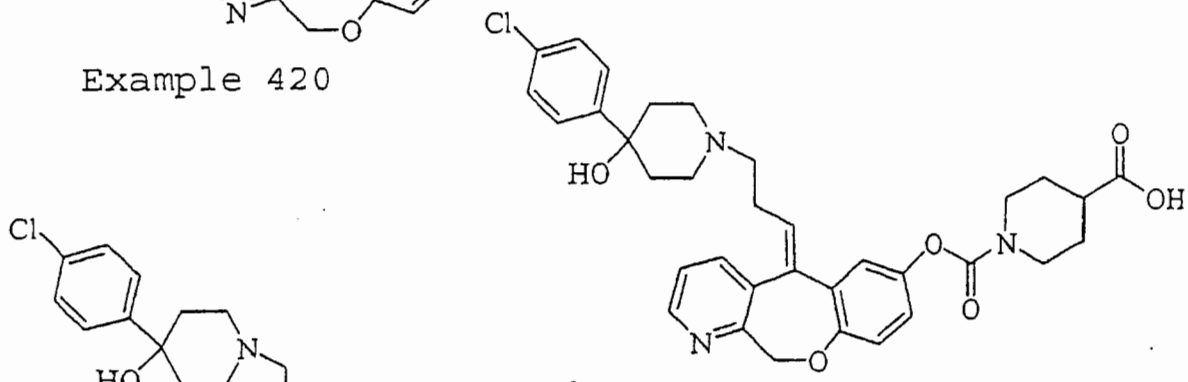


Example 419

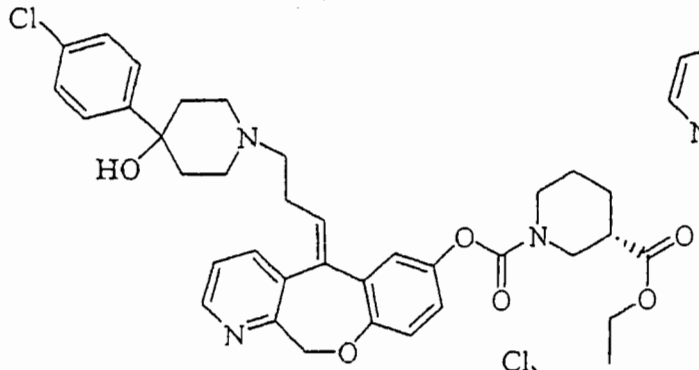
Figure 11R



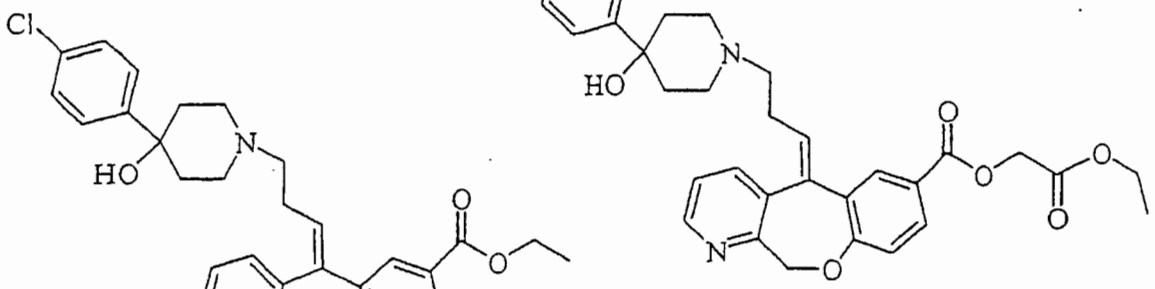
Example 420



Example 421



Example 422



Example 424

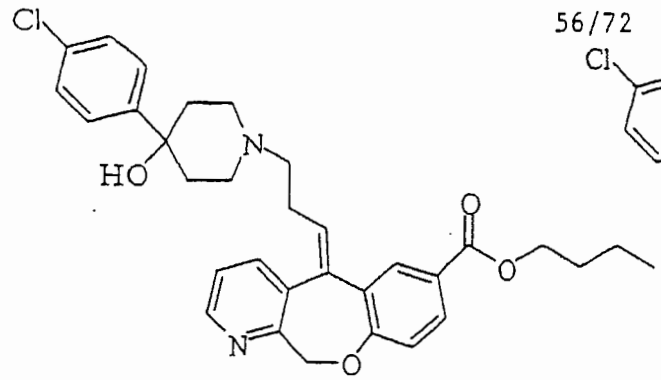


Example 423

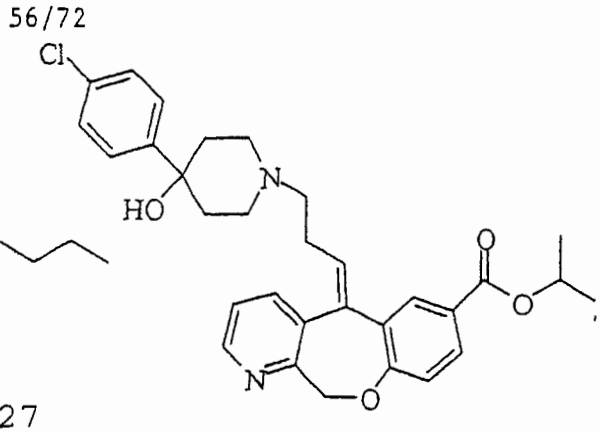
Example 425

Example 426

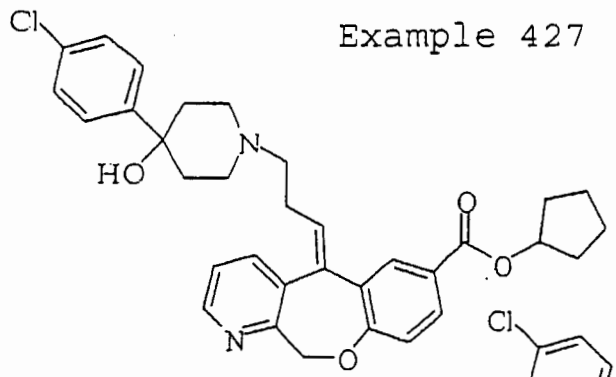
Figure 11S



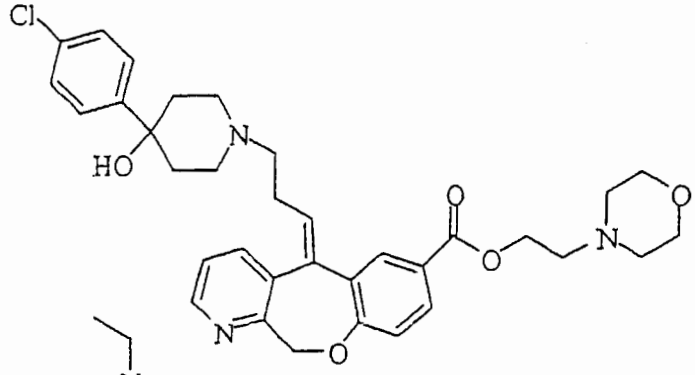
Example 427



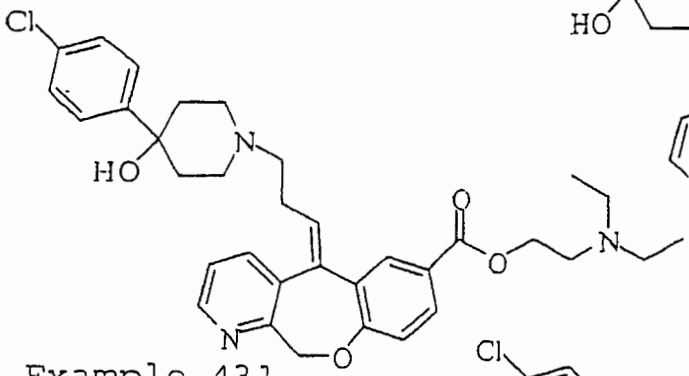
Example 428



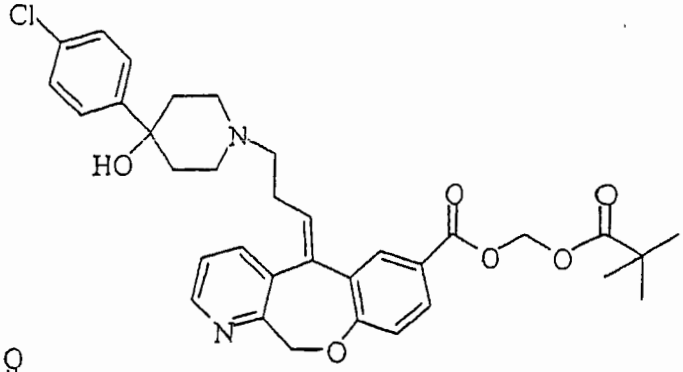
Example 429



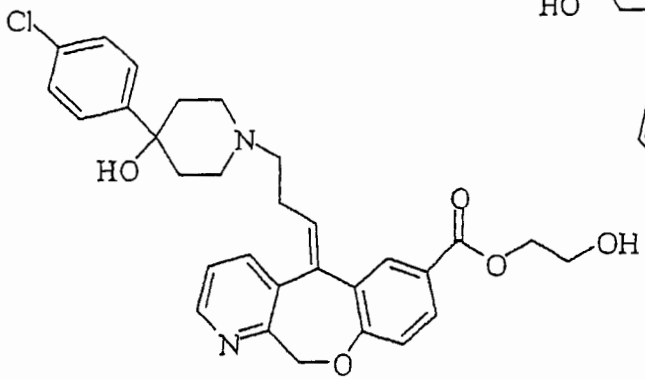
Example 430



Example 431



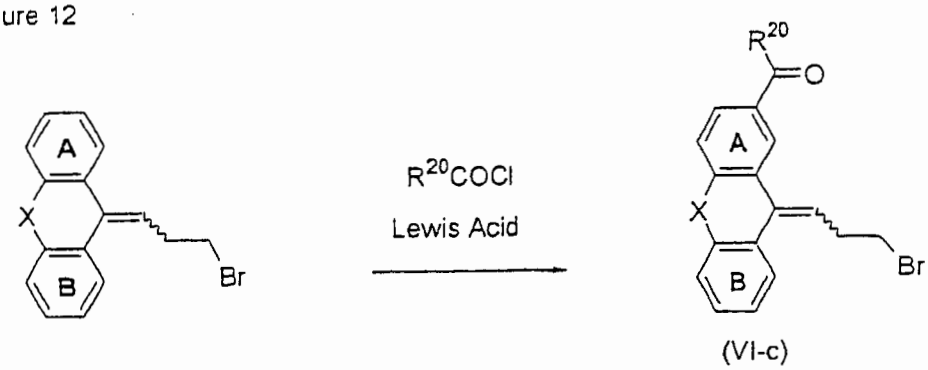
Example 432



Example 433

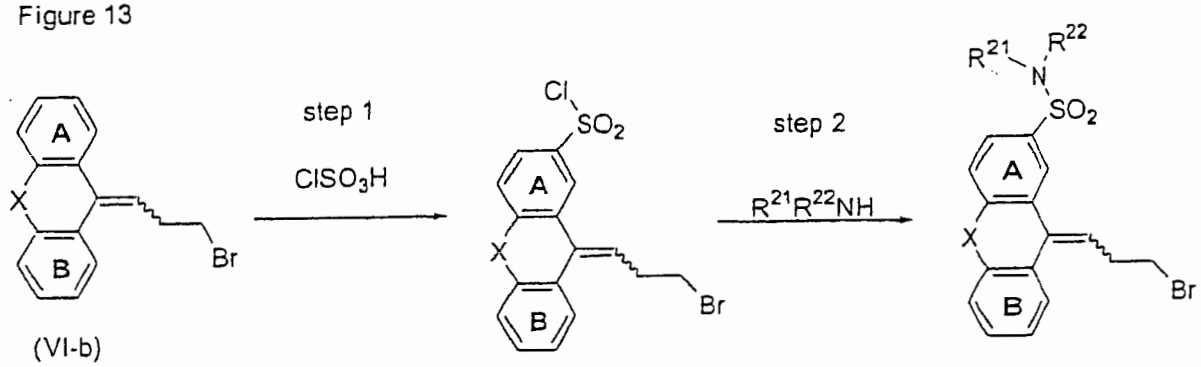
Figure 11T

Figure 12



(VI-b) (VI-c)

Figure 13



(VI-b) (VI-d) (VI-e)

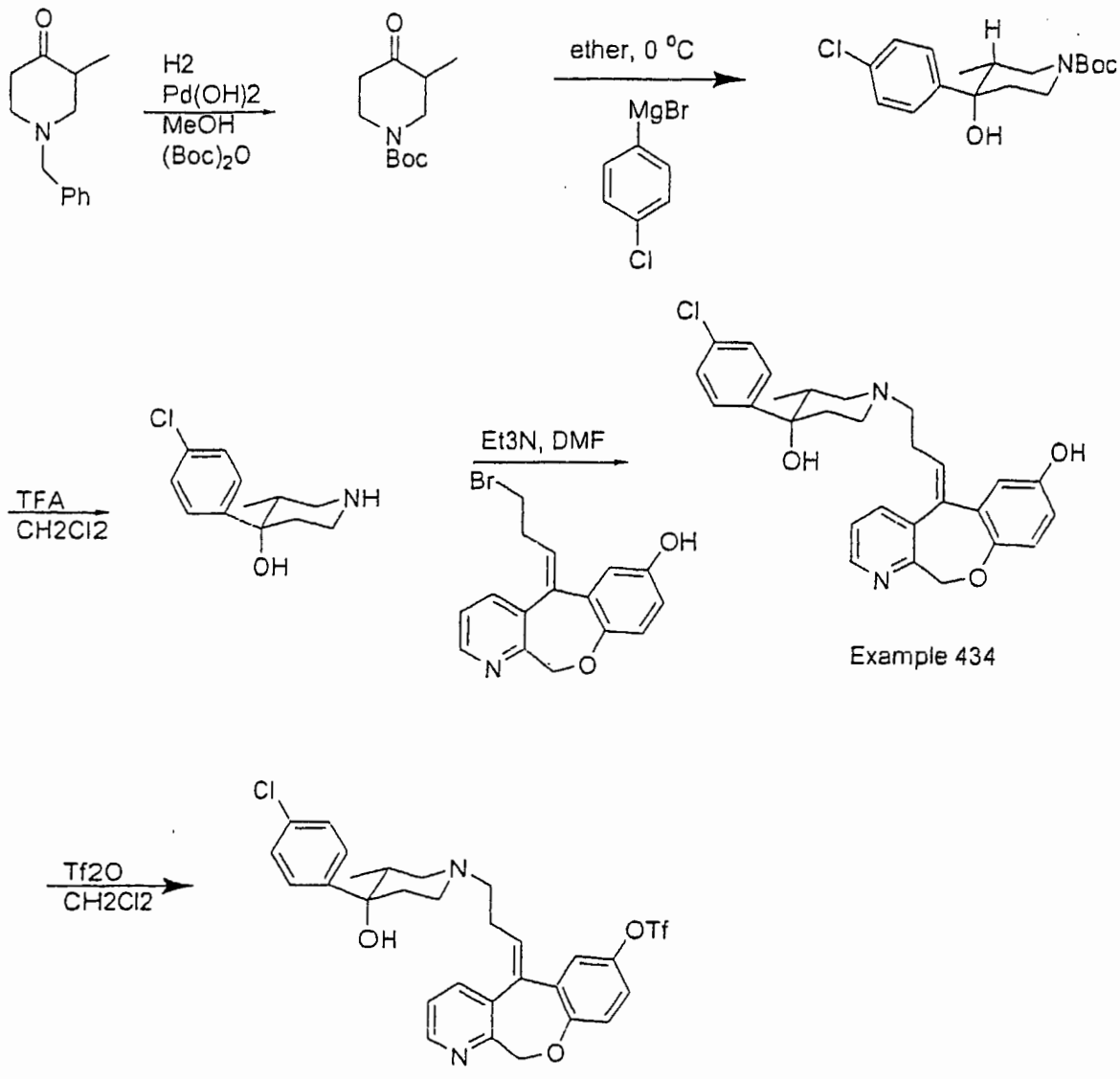
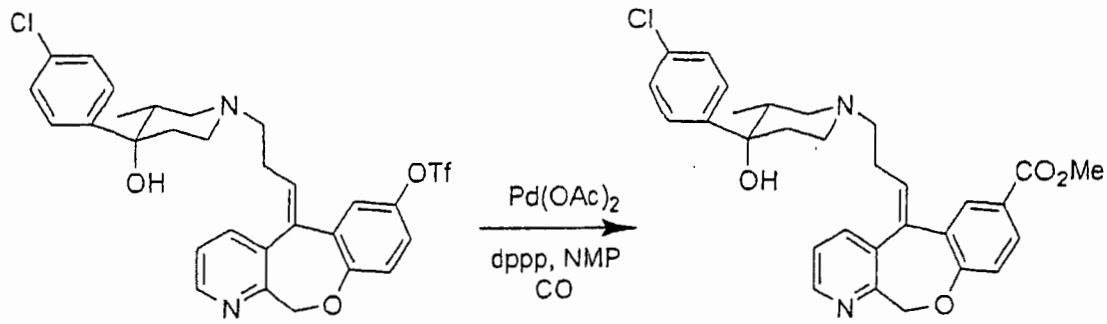
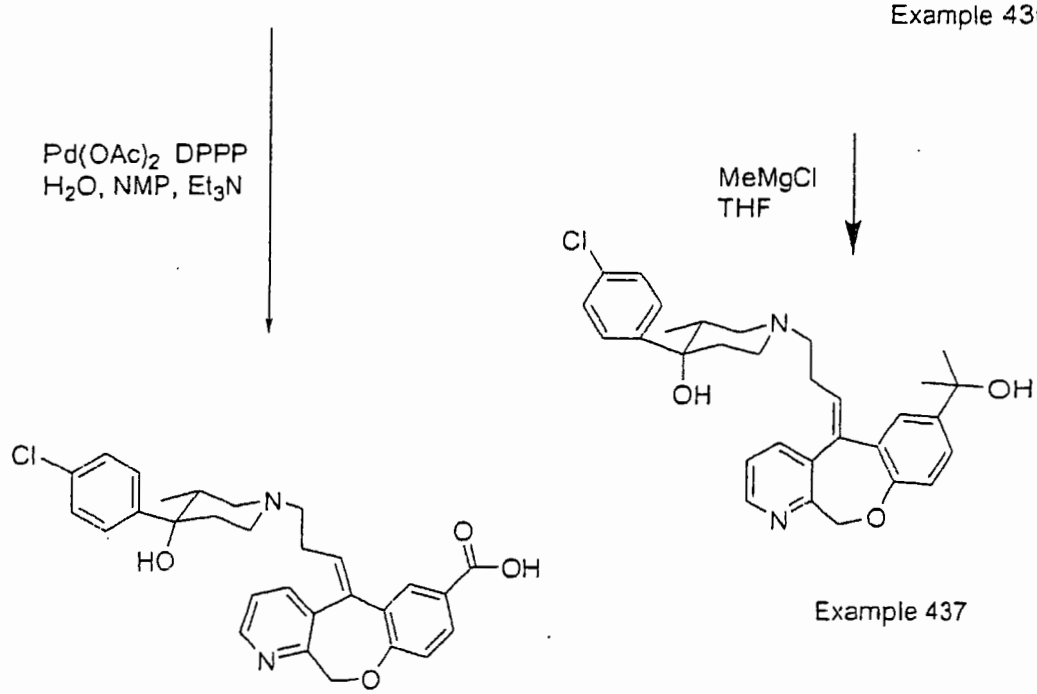

H2
Pd(OH)2
MeOH
(Boc)2O
ether, 0 °C
MgBr
TFA
CH2Cl2
Et3N, DMF
Tf2O
CH2Cl2
Example 434
Example 435

Figure 14



Example 435

Example 436



Example 437

Example 438

Figure 15

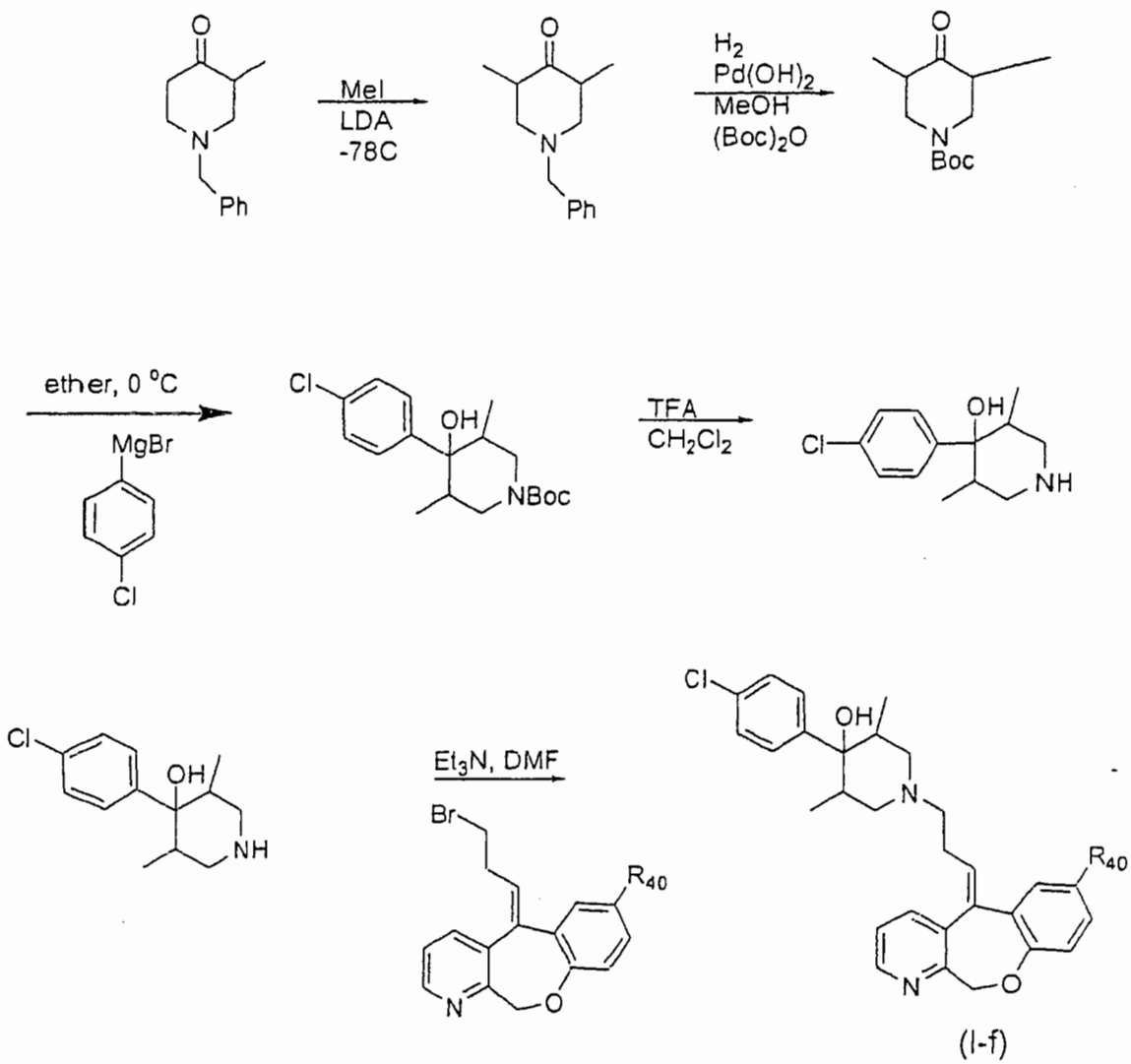
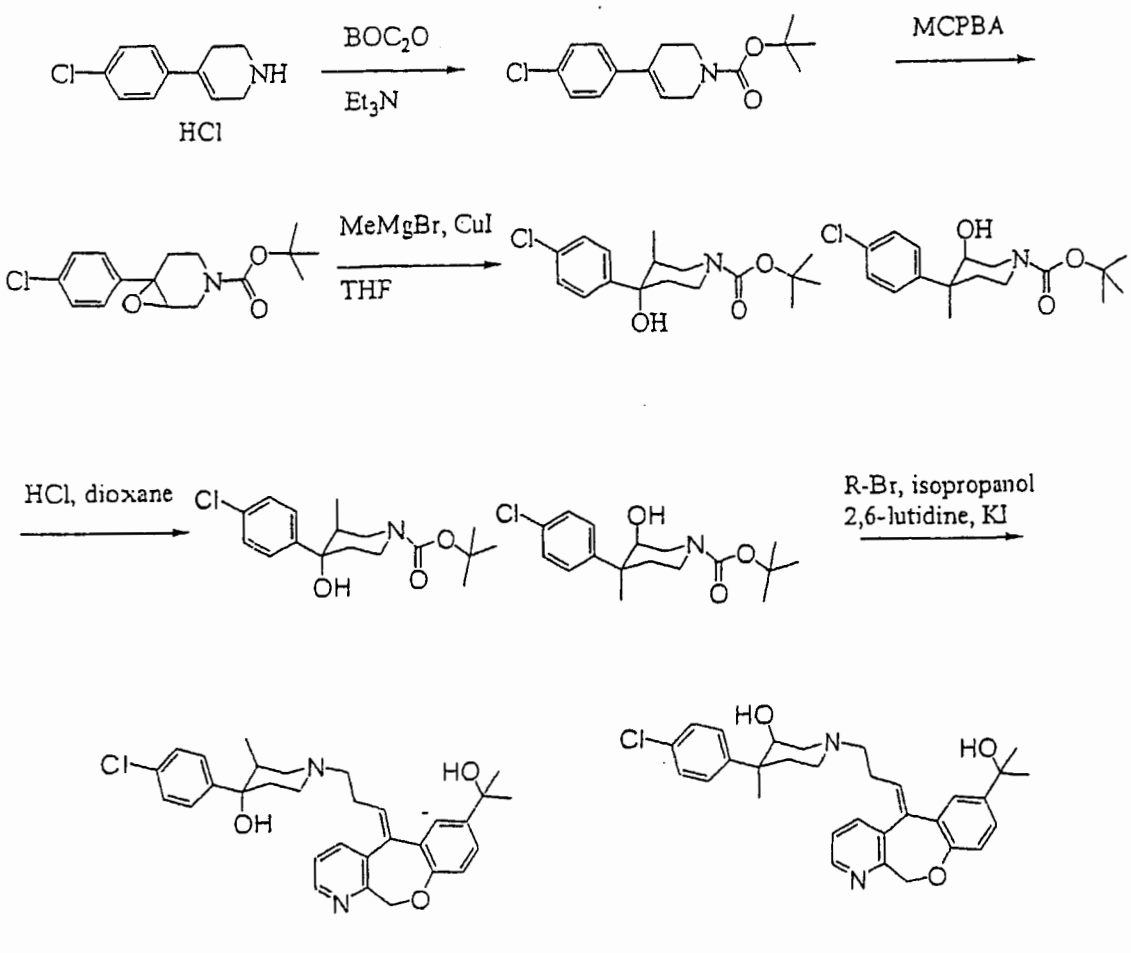

MeI
LDA
-78C
H_2
$Pd(OH)_2$
MeOH
$(Boc)_2O$
Ph
Boc
ether, 0 °C
MgBr
Cl
OH
NBoc
TFA
CH_2Cl_2
NH
Et_3N, DMF
Br
R_{40}
N
O
(I-f)

Figure 16



Example 441

Example 442

Figure 17

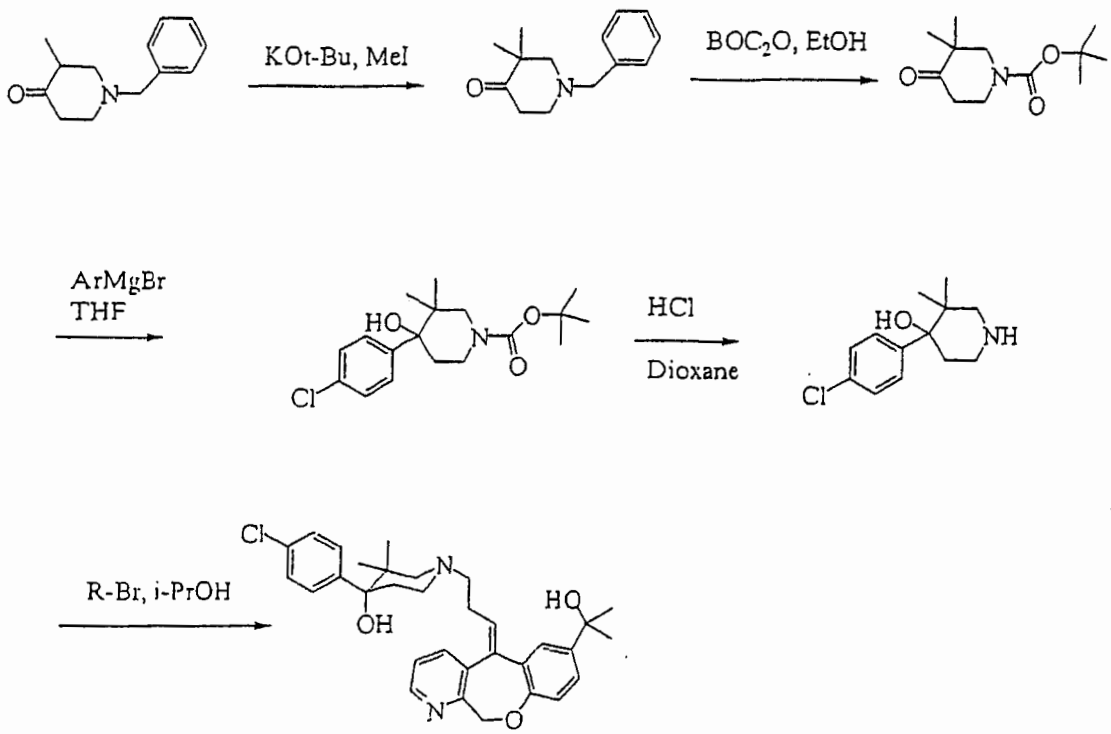

KOt-Bu, MeI
BOC2O, EtOH
ArMgBr
THF
HCl
Dioxane
R-Br, i-PrOH
Example 443

Figure 18

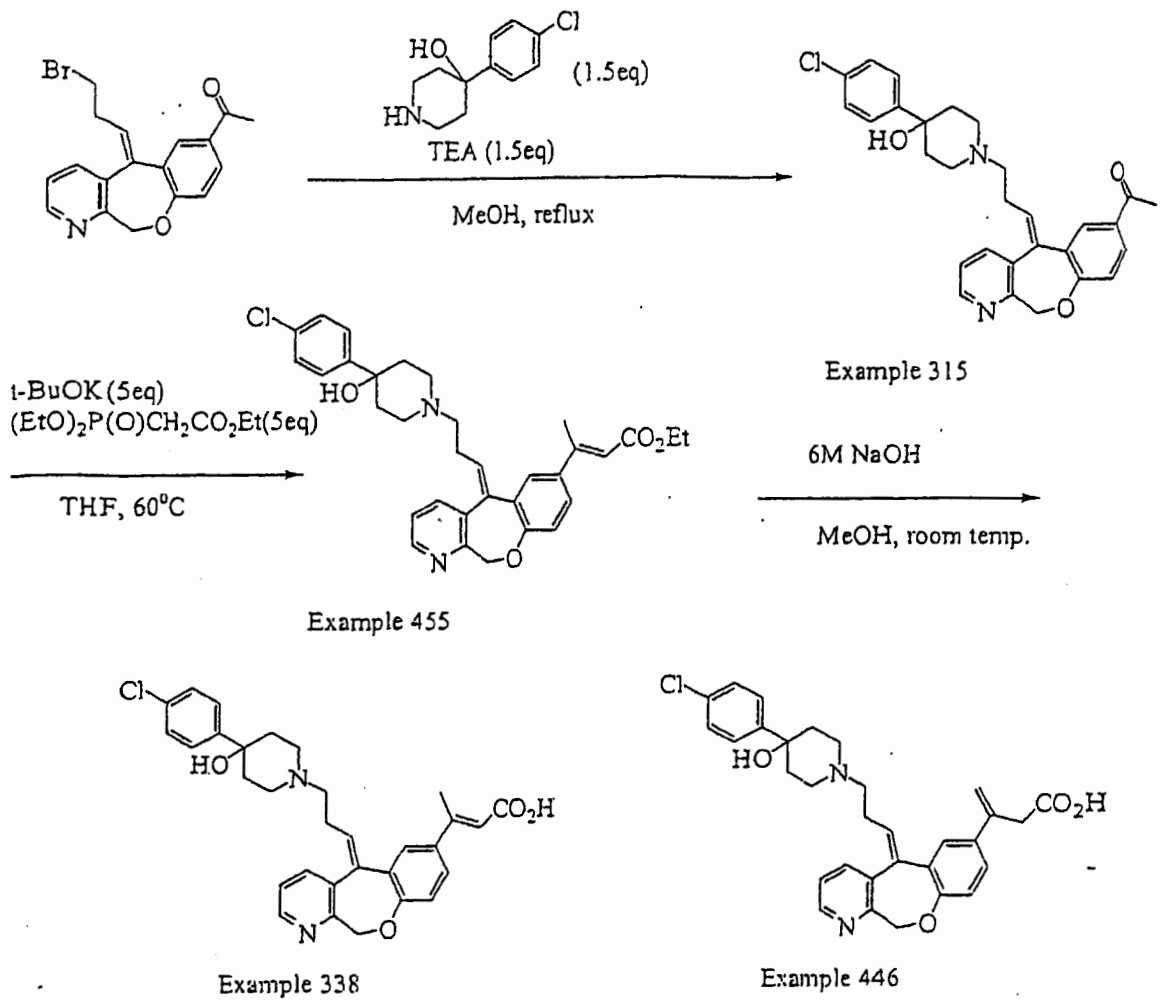
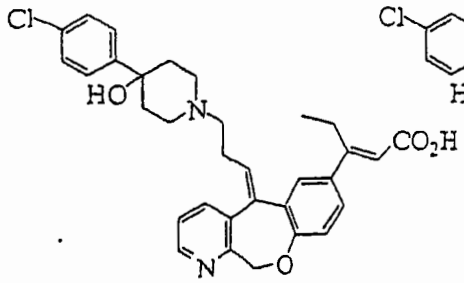
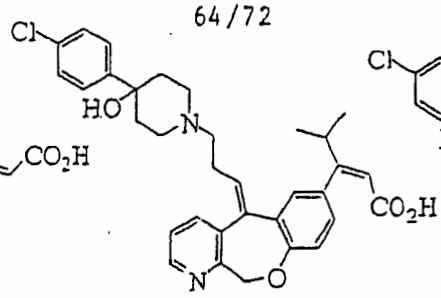

Br
O
HO
Cl
HN
(1.5eq)
TEA (1.5eq)
MeOH, reflux
Cl
HO
N
O
Example 315
t-BuOK (5eq)
(EtO)2P(O)CH2CO2Et(5eq)
THF, 60°C
CO2Et
6M NaOH
MeOH, room temp.
Example 455
CO2H
Example 338
Example 446

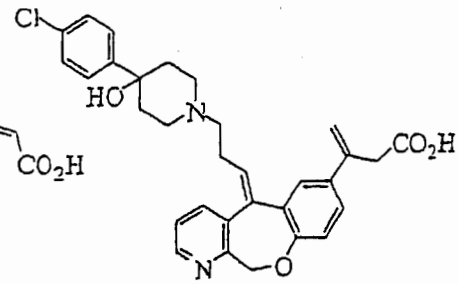
Figure 19



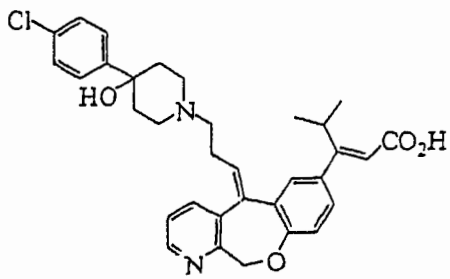
Example 444



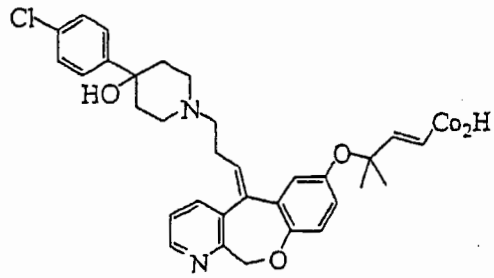
Example 445



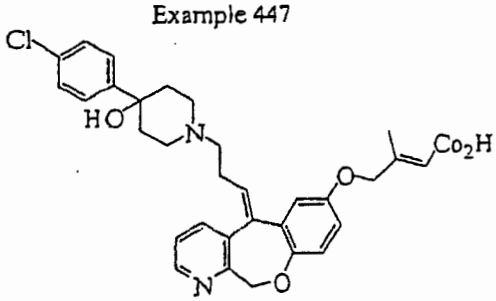
Example 446



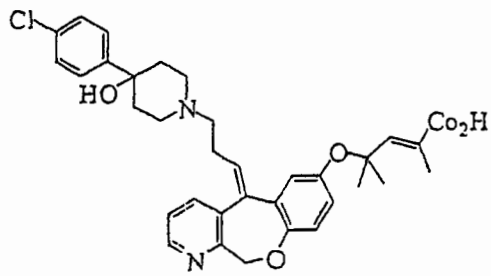
Example 447



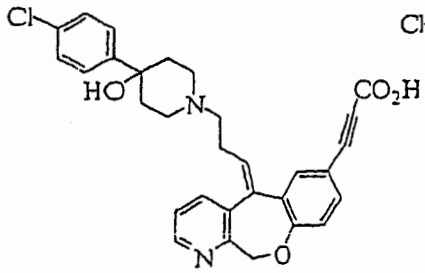
Example 448



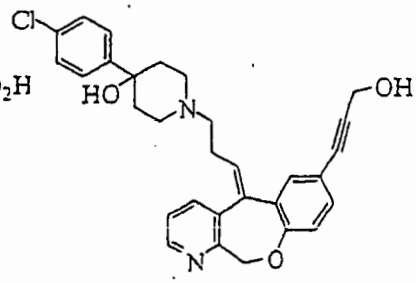
Example 449



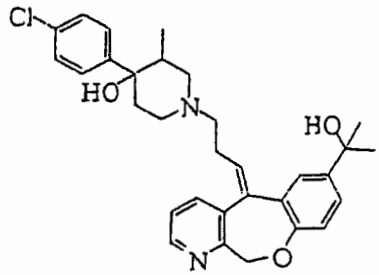
Example 450



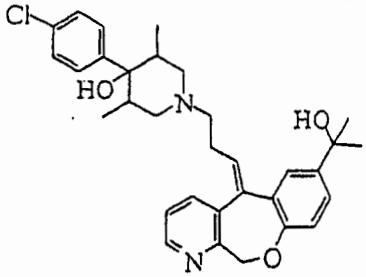
Example 451



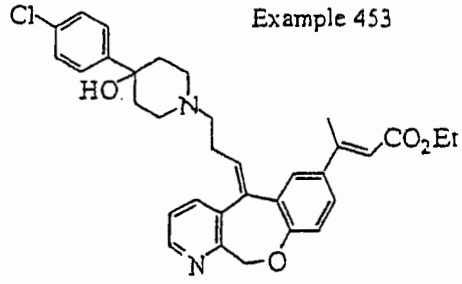
Example 452



Example 453

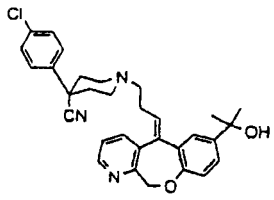


Example 454

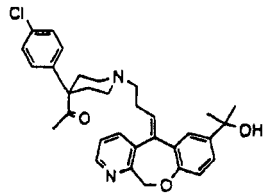


Example 455

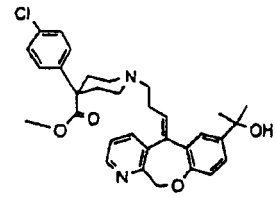
Figure 20



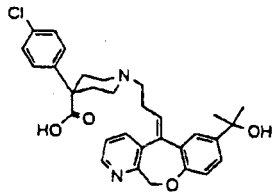
Example 456



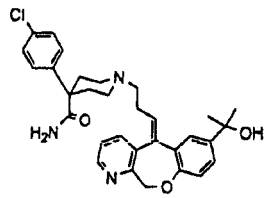
Example 457



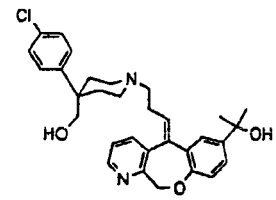
Example 458



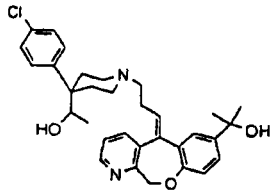
Example 459



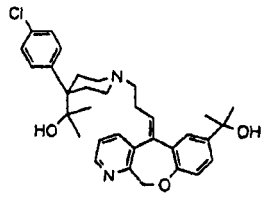
Example 460



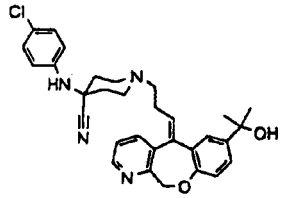
Example 561



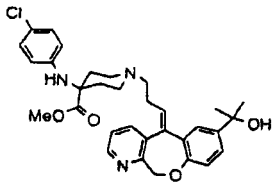
Example 462



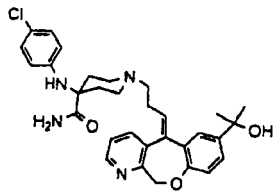
Example 463



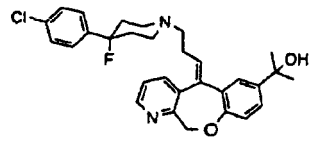
Example 464



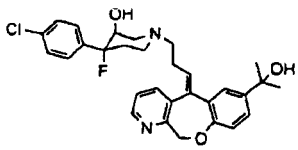
Example 465



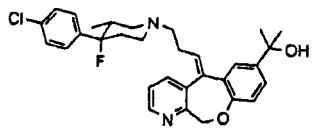
Example 466



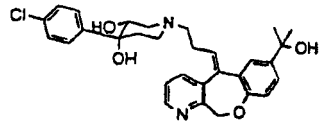
Example 467



Example 468

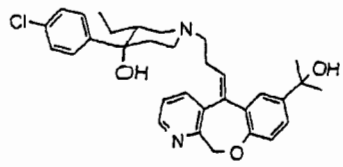


Example 469

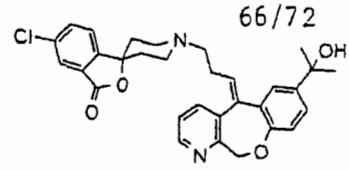


Example 470

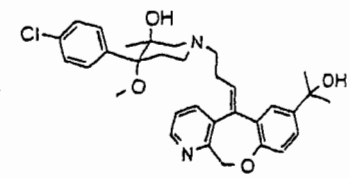
Figure 21



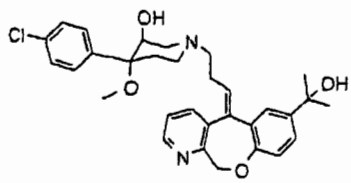
Example 471



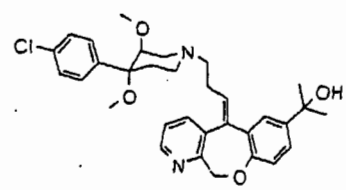
Example 472



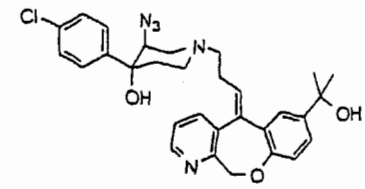
Example 473



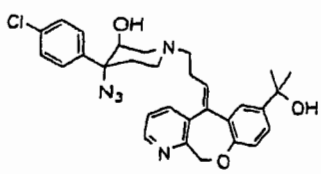
Example 474



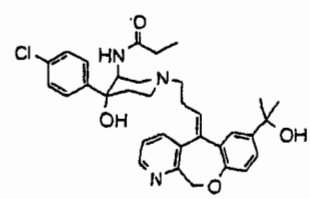
Example 475



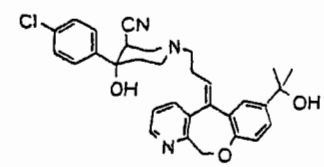
Example 476



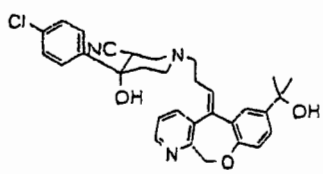
Example 477



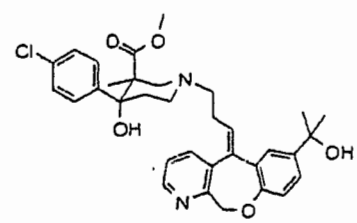
Example 478



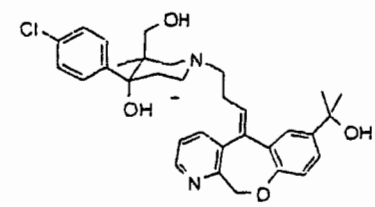
Example 479



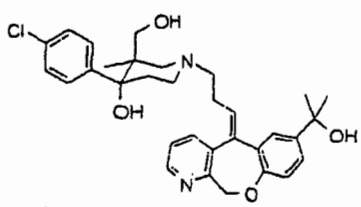
Example 480



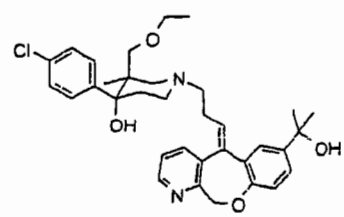
Example 481



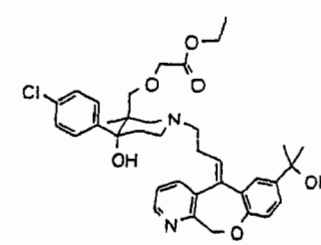
Example 482
(racemic)



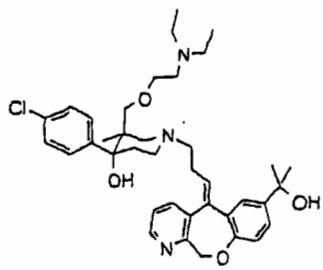
Example 483-1 (chiral)
Example 483-2 (chiral)



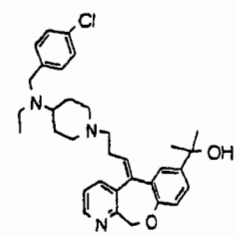
Example 484



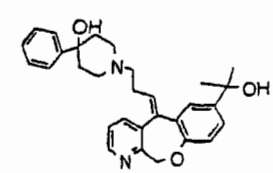
Example 485



Example 486

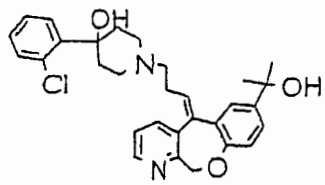


Example 487

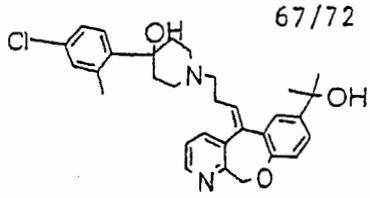


Example 488

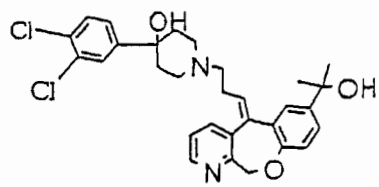
Figure 22



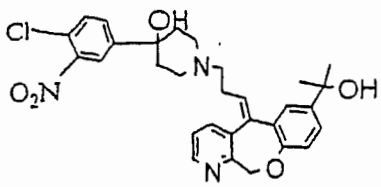
Example 489



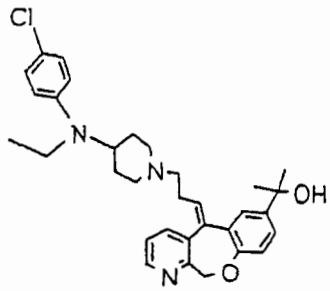
Example 490



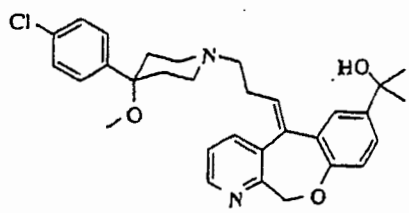
Example 491



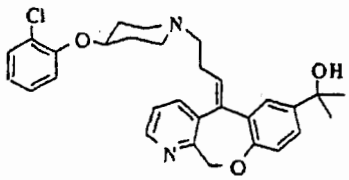
Example 492



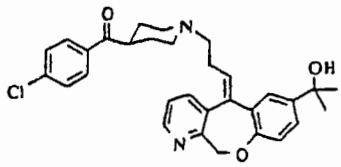
Example 493



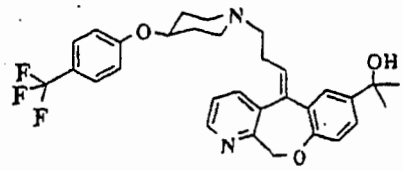
Example 494



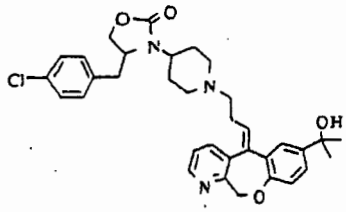
Example 495



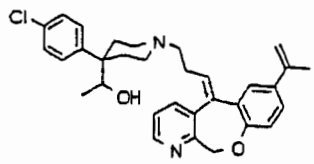
Example 496



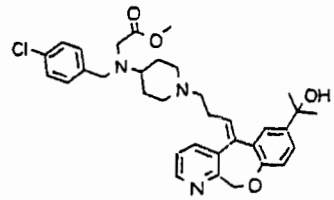
Example 497



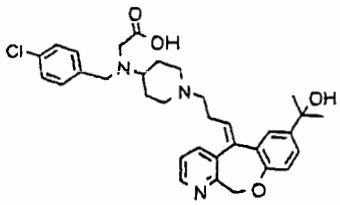
Example 498



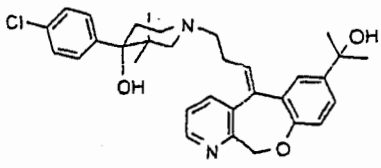
Example 499



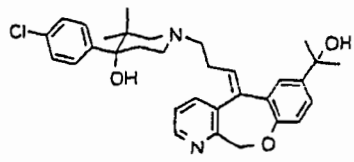
Example 500



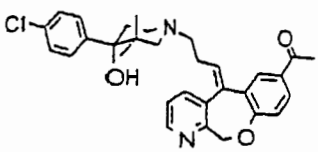
Example 501



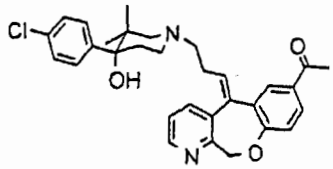
Example 502



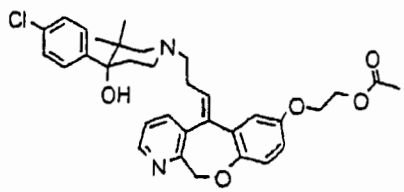
Example503



Example 504

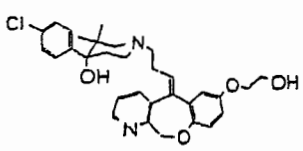


Example 505

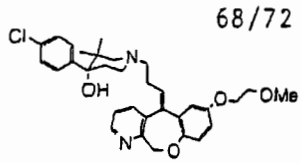


Example 506

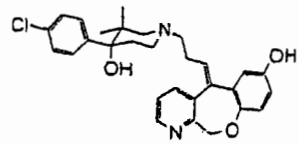
Figure 23



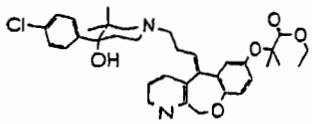
Example 507



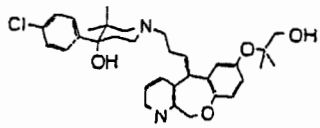
Example 508



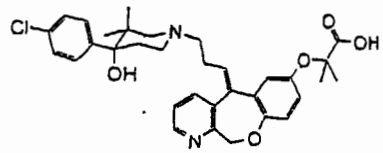
Example 509



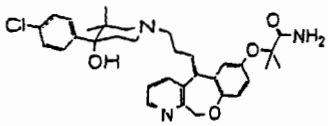
Example 510



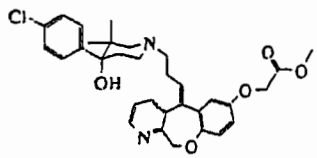
Example 511



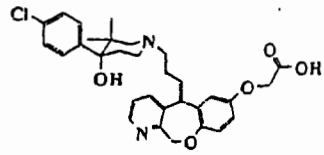
Example 512



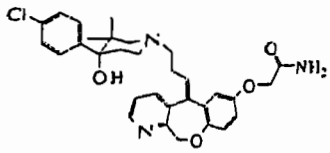
Example 513



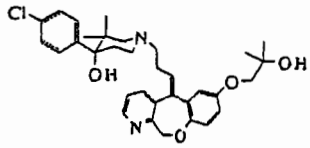
Example 514



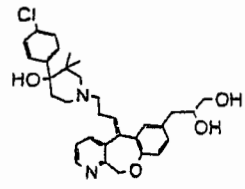
Example 515



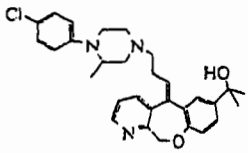
Example 516



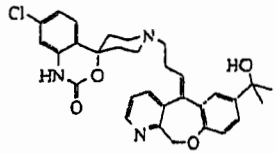
Example 517



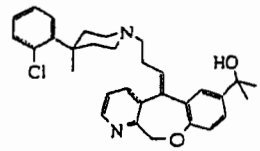
Example 518



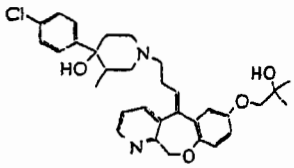
Example 519



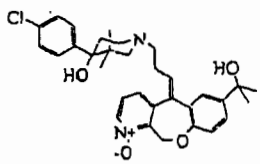
Example 520



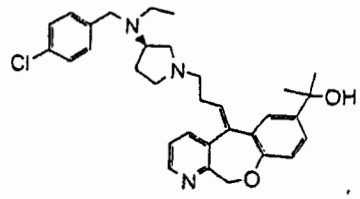
Example 521



Example 522

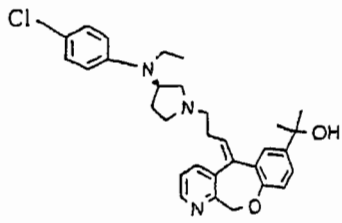


Example 523

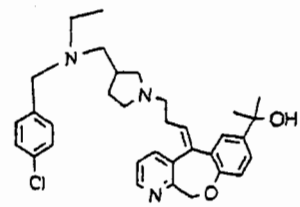


Example 524

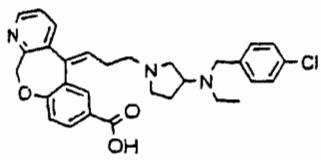
Figure 24



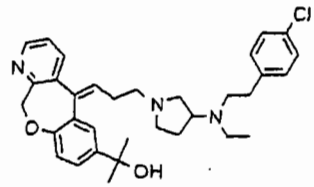
Example 525



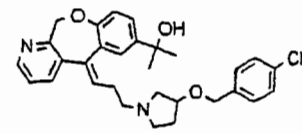
Example 526



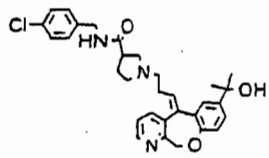
Example 527



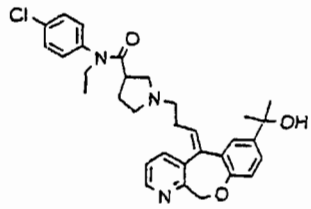
Example 528



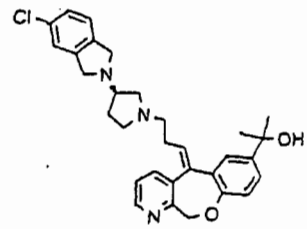
Example 529



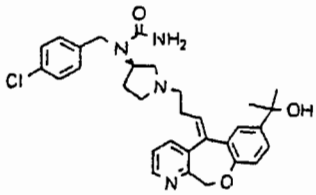
Example 530



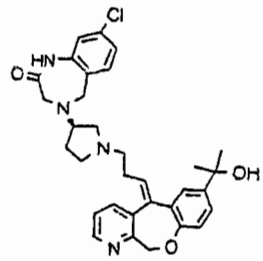
Example 531



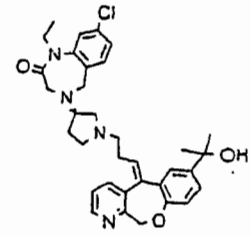
Example 532



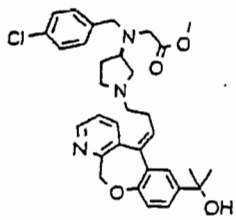
Example 533



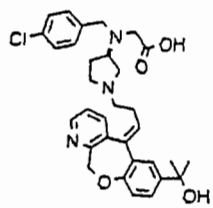
Example 534



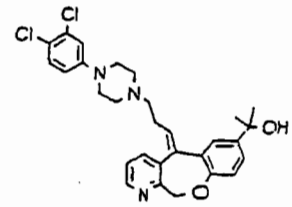
Example 535



Example 536

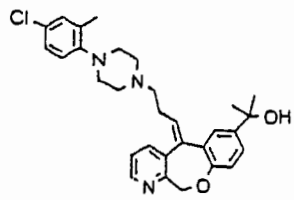


Example 537

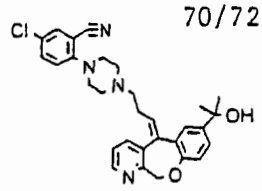


Example 538

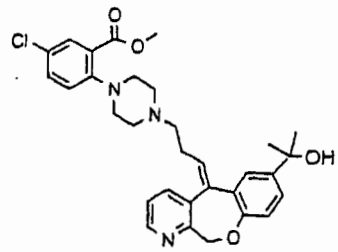
Figure 25



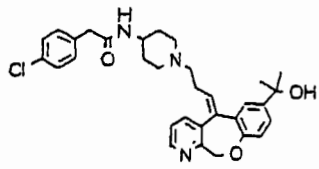
Example 539



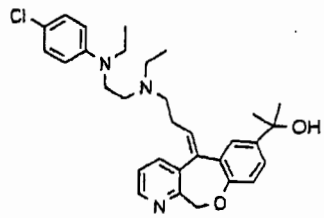
Example 540



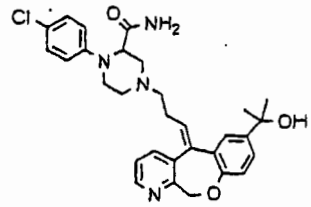
Example 541



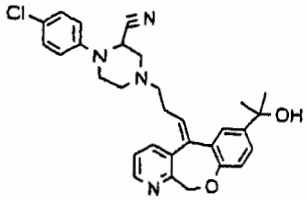
Example 542



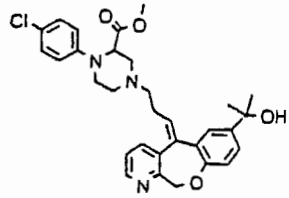
Example 543



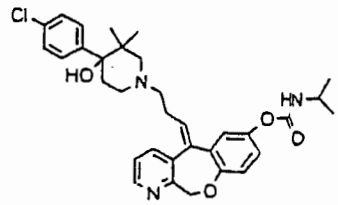
Example544



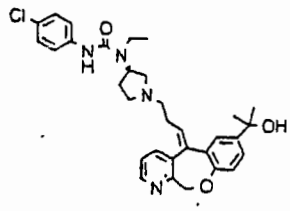
Example 545



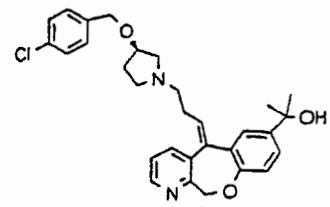
Example 546



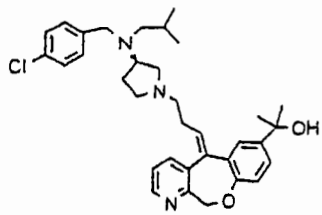
Example 547



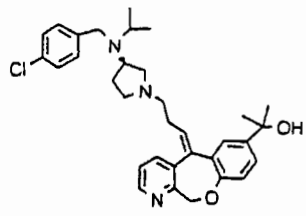
Example 548



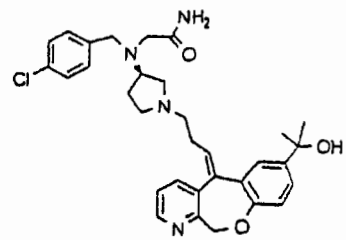
Example549



Example 550

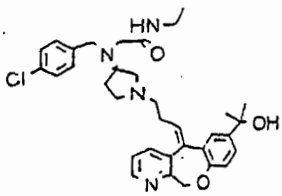


Example 551

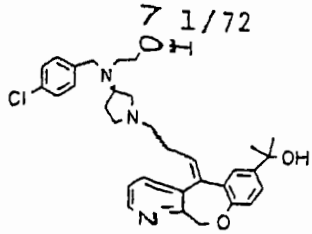


Example 552

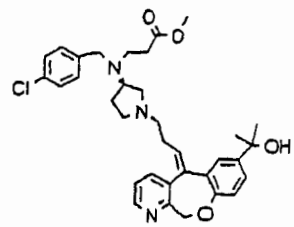
Figure 26



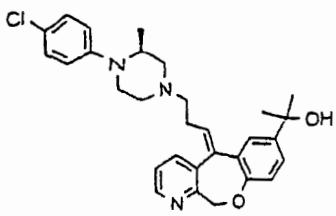
Example 553



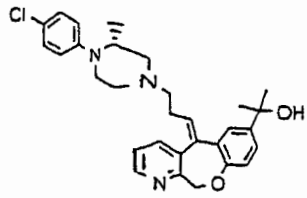
Example 554



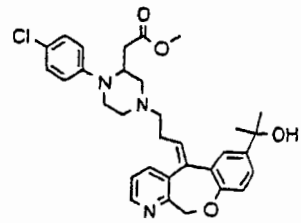
Example 555



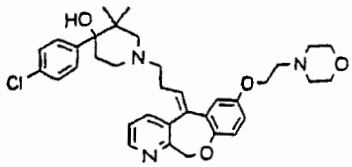
Example 556



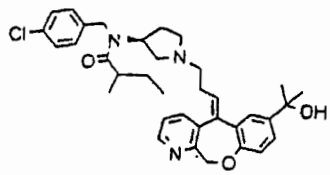
Example 557



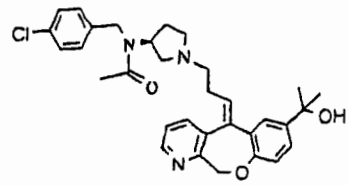
Example 558



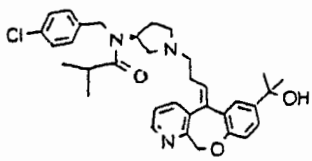
Example 559



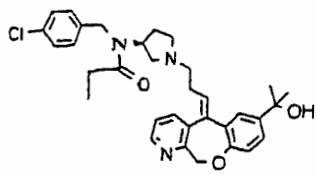
Example560



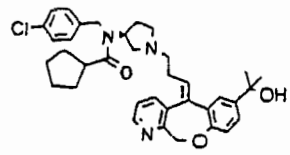
Example 561



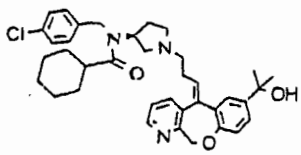
Example 562



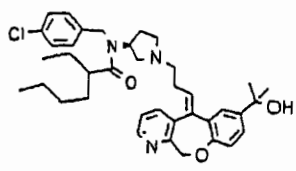
Example 563



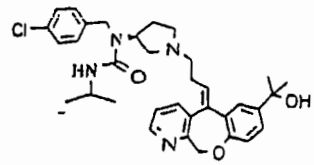
Example 564



Example 565

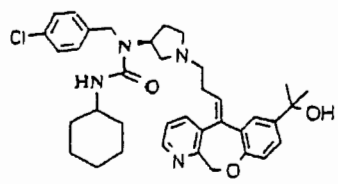


Example 566

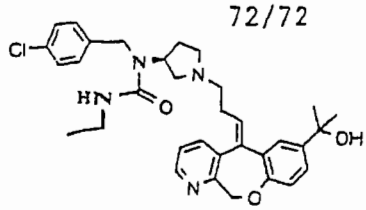


Example 567

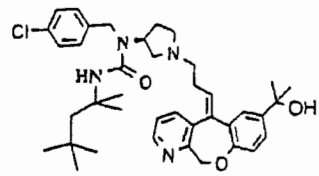
Figure 27



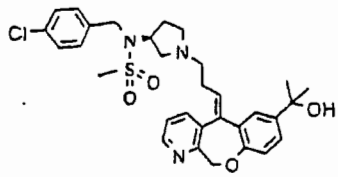
Example 568



Example 569



Example 570



Example 571

Figure 28