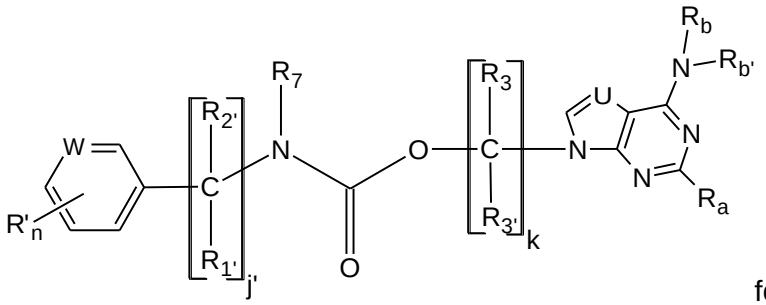
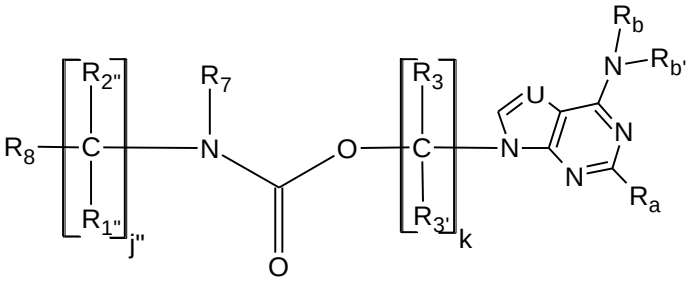
CLAIMS

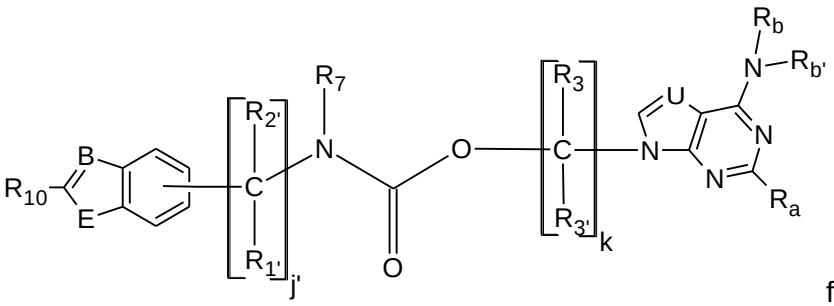
1. A compound (C) or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein said compound (C) is chosen among those of formulae (II) to (V) [compounds (C) of class (I), herein after]:



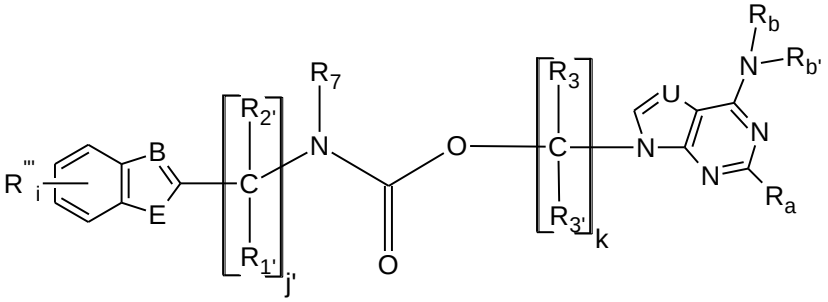
formula (II)



formula (III)



formula (IV)



formula (V)

wherein:

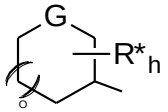
- each of R_a is independently selected from the group consisting of hydrogen, halo, CF_3, $N(R_{14})_2$, CN, C_{1-15} alkyl, C_{2-15} alkenyl, C_{2-15} alkynyl, cycloalkyl, heterocyclyl, aryl, and heteroaryl, wherein said alkyl, cycloalkyl, heterocyclyl, aryl, and heteroaryl are optionally substituted with one or more substituents selected from halo, C_{1-15} alkyl, O—C_{1-6}alkyl; and wherein each of R_{14}, independent from each other, is selected from hydrogen, C_{1-15} alkyl, cycloalkyl; preferably each of R_a is independently selected from the group consisting of hydrogen, halo, $N(R_{14})_2$, heterocyclyl, and heteroaryl, wherein said heterocyclyl, and heteroaryl are optionally substituted with one or more substituents selected from halo, C_{1-4} alkyl; preferably each of R_{14}, independent from each other, is selected from hydrogen, C_{1-4} alkyl, cycloalkyl; or preferably each of R_a is C_{1-15} alkyl, C_{1-15} cycloalkyl, C_{2-15} alkenyl, C_{2-15} alkynyl, more preferably each of R_a is C_{1-10} alkyl, C_{1-6} cycloalkyl, C_{2-10} alkenyl, C_{2-10} alkynyl;
- each of U is independently selected from the group consisting of N, C-R_d wherein R_d is hydrogen, C_{1-5} alkyl or halo; preferably U is N or C-R_d wherein R_d is hydrogen or halo; more preferably U is N;
- each of R’ and R”’ independently from each other and at each occurrence, are selected from halo, C_{1-6} alkyl, C_{1-6} alkenyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, CF_3, CN, OR_{21}, $N(R_{21})_2$, $OC(R_{21})_2O$, $OC(R_{21})_2C(R_{21})_2O$, SO_2R_{22} or $SO_2N(R_{21})_2$, wherein said alkyl, alkenyl, cycloalkyl, aryl, heterocyclyl, heteroaryl group is further optionally substituted with one or more substituents selected from halo, alkyl, cycloalkyl, aryl, $N(R_{21})_2$, $CON(R_{21})_2$, SO_2R_{22}, or CN; wherein each of R_{21} and R_{22} are independently selected from the group consisting of hydrogen, C_{1-5} alkyl, heterocyclyl, aryl, aralkyl and CF_3, wherein said alkyl, heterocyclyl, aryl and aralkyl substituents are optionally substituted with halo or heterocyclyl; and wherein R’ may be attached to two carbon atoms of the aryl group thereby forming a bicyclic system; or alternatively when W is a nitrogen, R’ may be attached to

one carbon atom and the nitrogen atom of the aryl group thereby forming a bicyclic system and n is an integer in the range from 0 to 4, preferably n is an integer in the range from 0 to 3; and i is an integer in the range from 0 to 4, preferably i is 0 or 1;

- each of $R_{1'}$, $R_{2'}$, R_3 and $R_{3'}$, independently from each other and at each occurrence, are selected from the group consisting of hydrogen, C_{1-10} alkyl and C_{2-10} alkenyl wherein said alkyl and alkenyl, are optionally substituted with a halogen atom, an aryl group or an aralkyl group; preferably each of $R_{1'}$, $R_{2'}$, R_3 and $R_{3'}$, independently from each other and at each occurrence, are selected from hydrogen or an C_{1-4} alkyl;
- each of $R_{1''}$ and $R_{2''}$, independently from each other and at each occurrence are selected from the group consisting of hydrogen; C_{1-10} alkyl wherein said alkyl is optionally substituted with a halogen atom or an aryl group; OR_{23} or $N(R_{23})_2$ wherein each of R_{23}, independent from each other, is selected from hydrogen or an C_{1-10} alkyl which is optionally substituted by a halogen atom, an aryl group or an aralkyl group; preferably each of $R_{1''}$ and $R_{2''}$, independently from each other and at each occurrence are selected from the group consisting of hydrogen; C_{1-5} alkyl; OR_{23} wherein each of R_{23}, independent from each other, is selected from hydrogen or C_{1-4} alkyl;
- each of R_b and $R_{b'}$, independent from each other and at each occurrence, are selected from hydrogen; an C_{1-15} alkyl which is optionally substituted by a halogen atom, an aryl, a heterocylcyl or an aralkyl group; preferably each of R_b and $R_{b'}$, independent from each other and at each occurrence, are each selected from hydrogen; a C_{1-5} alkyl which is optionally substituted by an aryl, a heterocylcyl or an aralkyl group, most preferably R_b is hydrogen;
- each of R_7 is independently selected from hydrogen or C_{1-6} alkyl such as, for example, methyl, ethyl, propyl, isopropyl, butyl, *tert*-butyl, isobutyl, pentyl, hexyl and the like; preferably R_7 is hydrogen;
- each of k is an integer in the range from 2 to 5;

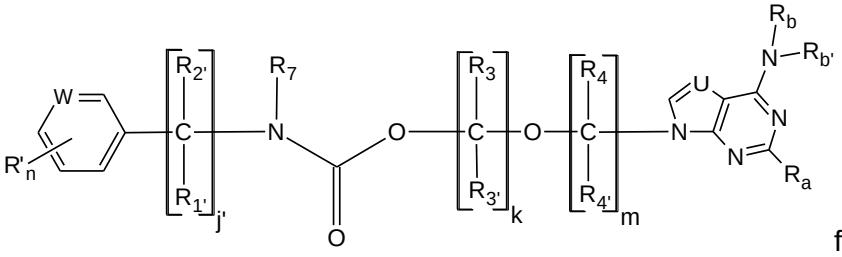
- each of W is selected, independently and at each occurrence, from C-halo, C-$R_{24,}$ O or N; and wherein R_{24} is selected from hydrogen or an C_{1-10} alkyl which is optionally substituted by a halogen atom, an aryl group or an aralkyl group, preferably W is selected, independently and at each occurrence, from C-halo, C-R_{24} or N; and preferably R_{24} is hydrogen or C_{1-5} alkyl;
- each of E is independently selected from CH_2, O, CH-halo or NR_{25}; and wherein R_{25} is selected from hydrogen or an C_{1-10} alkyl which is optionally substituted by a halogen atom, an aryl group or an aralkyl group; preferably each of E is independently selected from CH_2, O, or NR_{25}; and preferably R_{25} is selected from hydrogen or C_{1-5} alkyl;
- each of B is selected, independently and at each occurrence, from C-halo, C-$R_{26,}$ O, or N; and wherein R_{26} is selected from hydrogen or an C_{1-10} alkyl which is optionally substituted by a halogen atom, an aryl group or an aralkyl group; preferably each of B is selected, independently and at each occurrence, from C-$R_{26,}$ O, N; and preferably R_{26} is selected from hydrogen; C_{1-5} alkyl;
- each of j' is an integer in the range from 0 to 5, preferably j' is an integer in the range from 1 to 3;
- each of j" is an integer in the range from 0 to 15, preferably j" is an integer in the range from 0 to 8, more preferably j" is an integer in the range from 0 to 4;
- each of R_8 is independently selected from the group consisting of hydrogen, or the moiety of formula (R8-a) wherein G is N or C; wherein R* is selected from C_{1-6} alkyl, OH, O-C_{1-6}alkyl, an aryl or aralkyl group and R* may be attached to one atom, including G, or two atoms of the cyclic group thereby forming a bicyclic system; wherein h is an integer in the range between 0 to 4; and wherein o is an integer in the range between 0 to 1; preferably each of R_8 is independently selected from the group consisting of hydrogen, or the moiety of formula (R8-a) wherein G is N or C; preferably R* is selected from OH, an aryl or aralkyl group and R* may be attached to one atom, including G, or two

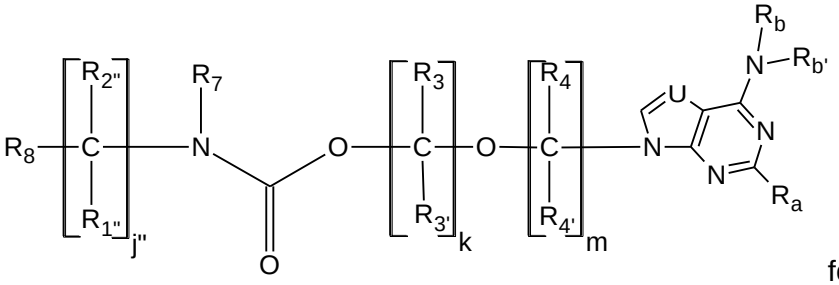
atoms of the cyclic group thereby forming a bicyclic system; preferably h is an integer in the range between 1 to 3; preferably o is 0;

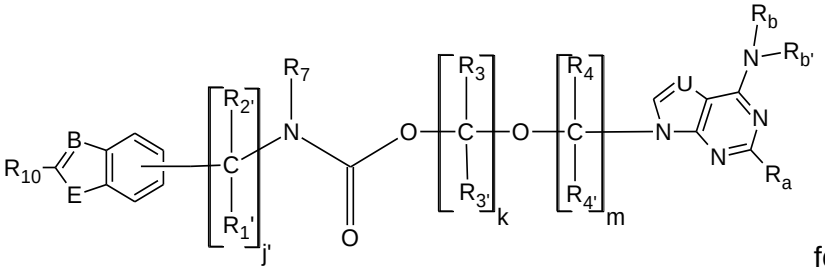

(R8-a)

- each of R_{10} is independently selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} alkenyl, cycloalkyl or $N(R_{27})_2$; and wherein R_{27} is independently selected from hydrogen or an C_{1-10} alkyl which is optionally substituted by a halogen atom, an aryl group or an aralkyl group, preferably each of R_{10} is independently selected from hydrogen, C_{1-4} alkyl, cycloalkyl, or $N(R_{27})_2$; and preferably R_{27} is independently selected from hydrogen or an C_{1-5} alkyl.

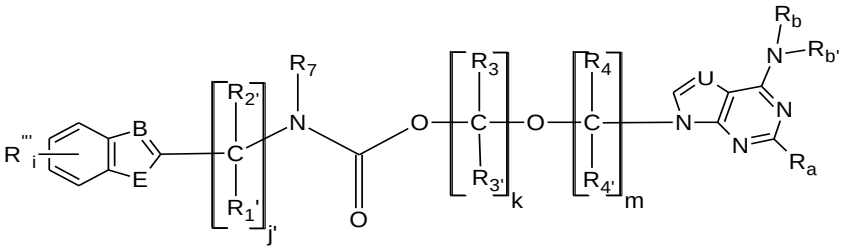
2. A compound (C) or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein wherein said compound (C) is chosen among those of formulae (VI) to (IX) [compounds (C) of class (II), herein after]:


formula (VI)


formula (VII)



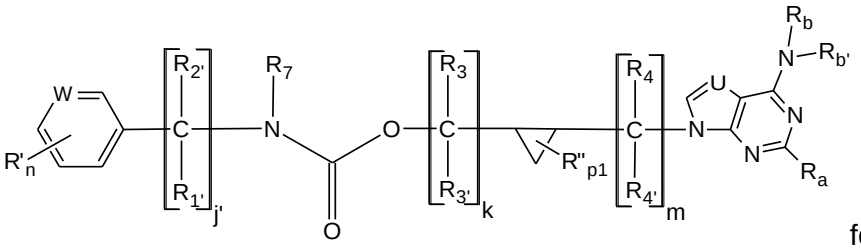
formula (VIII)



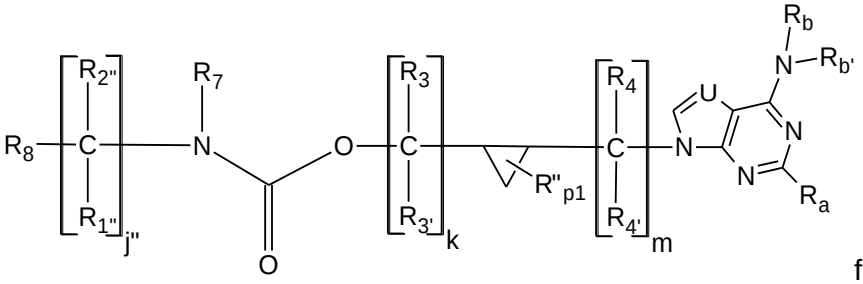
formula (IX)

wherein R', R"', $R_{1'}$, $R_{2'}$, $R_{1"}$, $R_{2"}$, R_3, R_4, $R_{3'}$, $R_{4'}$, R_8, R_{10}, R_a, R_b, $R_{b'}$, U, W, B, E, j', j", i and n are as defined in claim 1; and wherein k and m are each independently and at each occurrence selected from an integer in the range from 1 to 4, preferably k is 2 and m is 1.

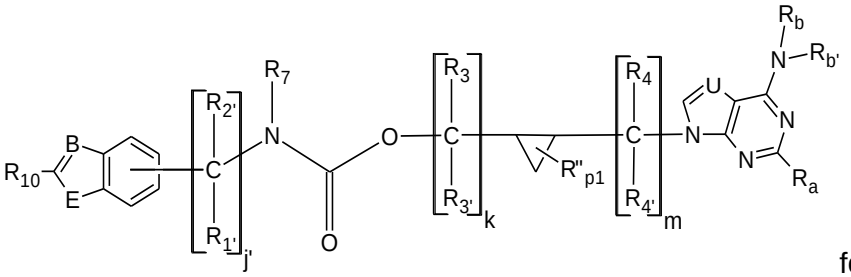
3. A compound (C) or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein wherein said compound (C) is chosen among those of formulae (IX') to (XII) [compounds (C) of class (III), herein after]:



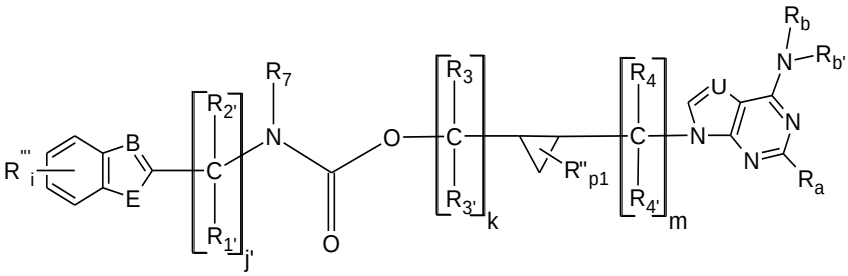
formula (IX')



formula (X)



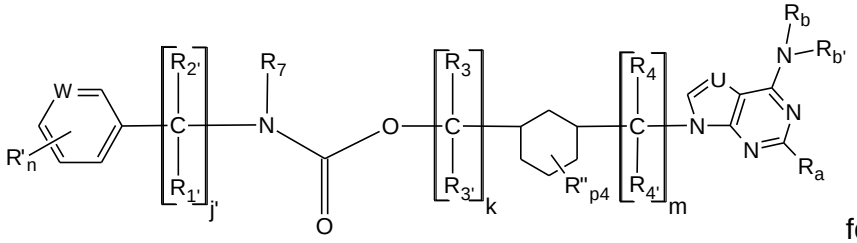
formula (XI)



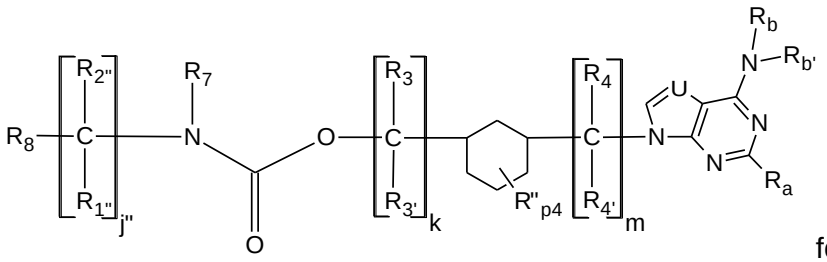
formula (XII)

wherein R', R"', $R_{1'}$, $R_{2'}$, $R_{1"}$, $R_{2"}$, R_3, R_4, $R_{3'}$, $R_{4'}$, R_8, R_{10}, R_a, R_b, $R_{b'}$, U, W, B, E, j', j", i and n are as defined in claim 1; and wherein k and m are each independently and at each occurrence selected from an integer in the range from 0 to 4, preferably k and m are 1; wherein p1 is an integer in the range from 0 to 2, preferably p1 is 0; and wherein R" is independently selected from hydrogen, C_{1-15} alkyl, C_{2-15} alkenyl, C_{2-15} alkynyl, wherein said C_{1-15} alkyl, C_{2-15} alkenyl, C_{2-15} alkynyl are optionally substituted with a halogen atom, an aryl group or an aralkyl group, preferably R" is independently selected from hydrogen, C_{1-4} alkyl such as methyl, ethyl, propyl, isopropyl, butyl, *tert*-butyl, isobutyl, and with the proviso when in formula (IX'), W is C-H, R' and R" is hydrogen, m is 0, k is 1, R_3, R_3' and R_7 is hydrogen then j' is an integer in the range from 1 to 3.

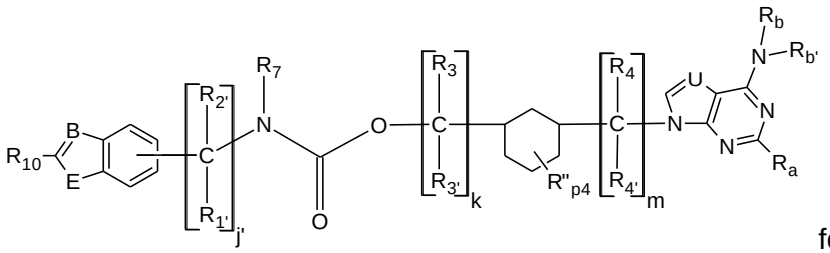
4. A compound (C) or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein said compound (C) is chosen among those of formulae (XIII) to (XVI) [compounds (C) of class (IV), herein after]:



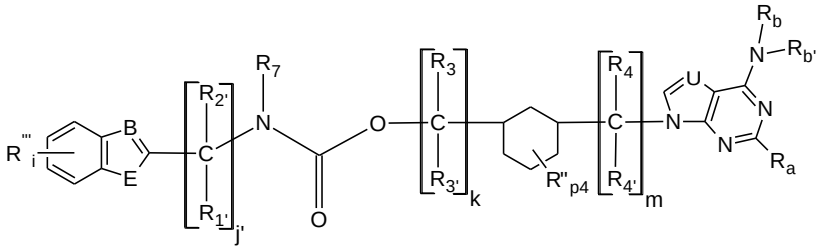
formula (XIII)



formula (XIV)



formula (XV)

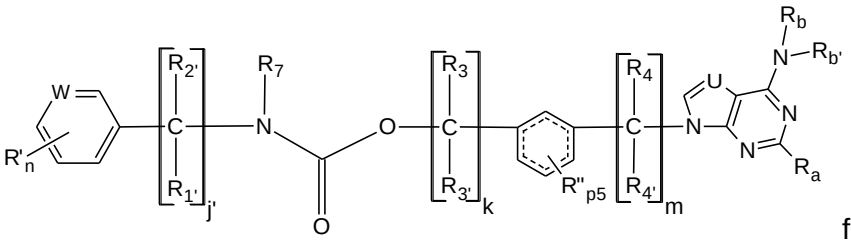


formula (XVI)

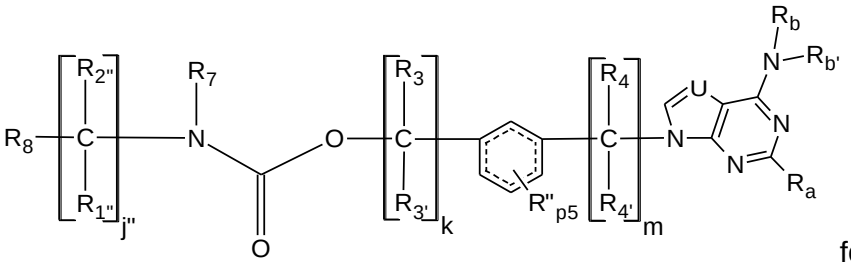
wherein R', R"', $R_{1'}$, $R_{2'}$, $R_{1"}$, $R_{2"}$, R_3, R_4, $R_{3'}$, $R_{4'}$, R_8, R_{10}, R_a, R_b, $R_{b'}$, U, W, B, E, j', j", i and n are as defined in claim 1; wherein k and m are each independently and at each occurrence selected from an integer in the range from 0 to 4, preferably k is 0 and m is 0; wherein p4 is an integer in the range from 0 to 6, preferably p4 is an integer in the range from 0 to 3, more preferably p4 is 0; and wherein R" is independently selected from hydrogen, C_{1-15} alkyl, C_{2-15}

alkenyl, $C_{2\text{-}15}$ alkynyl, wherein said $C_{1\text{-}15}$ alkyl, $C_{2\text{-}15}$ alkenyl, $C_{2\text{-}15}$ alkynyl are optionally substituted with a halogen atom, an aryl group or an aralkyl group, preferably R" is independently selected from hydrogen, $C_{1\text{-}4}$ alkyl such as methyl, ethyl, propyl, isopropyl, butyl, *tert*-butyl, isobutyl.

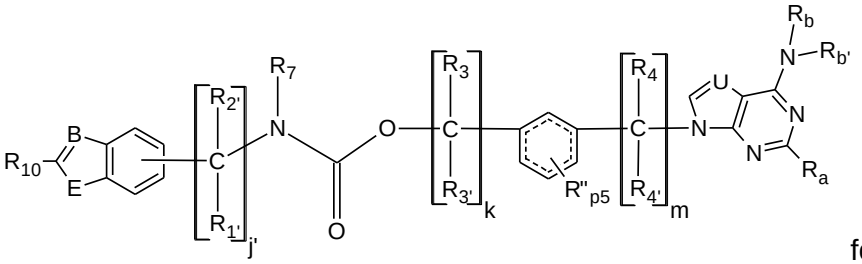
5. A compound (C) or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein said compound (C) is chosen among those of formulae (XVII) to (XX) [compounds (C) of class (V), herein after]:



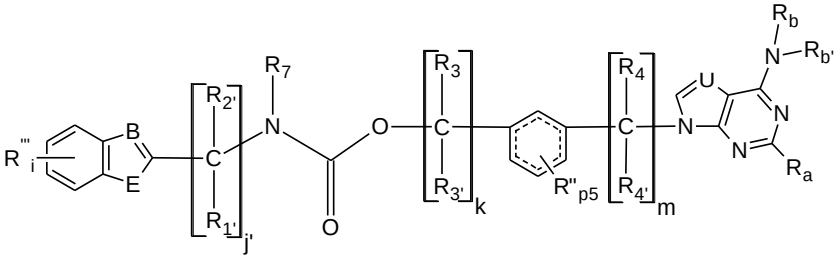
formula (XVII)



formula (XVIII)



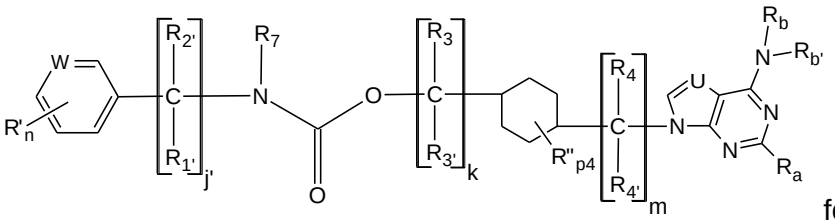
formula (XIX)



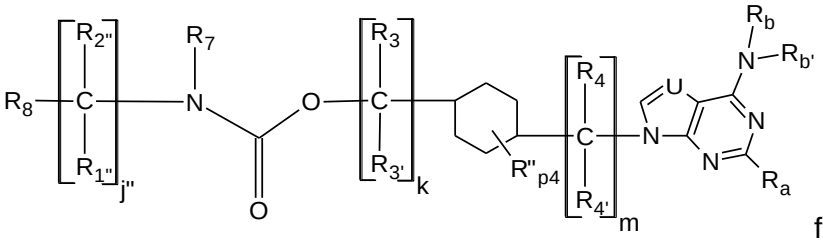
formula (XX)

wherein R', R"', $R_{1'}$, $R_{2'}$, $R_{1"}$, $R_{2"}$, R_3, R_4, $R_{3'}$, $R_{4'}$, R_8, R_{10}, R_a, R_b, $R_{b'}$, U, W, B, E, j', j", i and n are as defined in claim 1; wherein the dash bond represents at least one double bond; wherein k and m are each independently and at each occurrence selected from an integer in the range from 0 to 4, preferably k is 1 and m is 0; wherein p5 is an integer in the range from 0 to 4; preferably p5 is an integer in the range from 0 to 2, more preferably p5 is 0; and wherein R" is independently selected from hydrogen, C_{1-15} alkyl, C_{2-15} alkenyl, C_{2-15} alkynyl, wherein said C_{1-15} alkyl, C_{2-15} alkenyl, C_{2-15} alkynyl are optionally substituted with a halogen atom, an aryl group or an aralkyl group, preferably R" is independently selected from hydrogen, C_{1-4} alkyl such as methyl, ethyl, propyl, isopropyl, butyl, tert-butyl, isobutyl and the like.

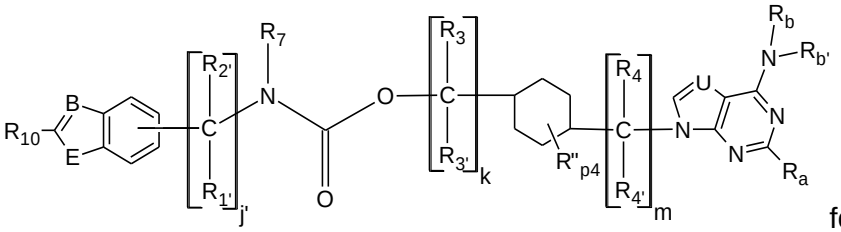
6. A compound (C) or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein said compound (C) is chosen among those of formulae (XXI) to (XXIV) [compounds (C) of class (VI), herein after]:



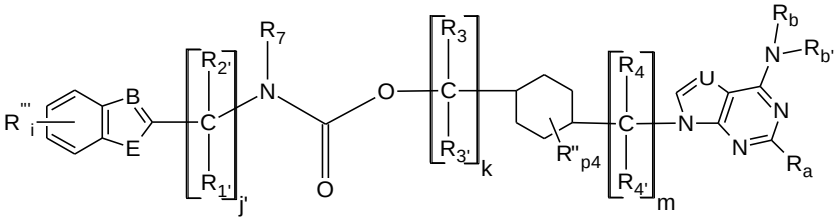
formula (XXI)



formula (XXII)



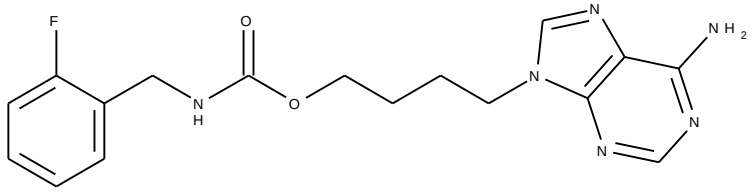
formula (XXIII)



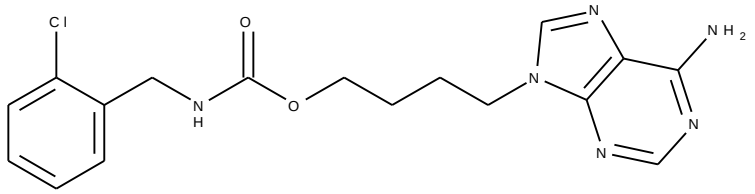
formula (XIV)

wherein R', R"', $R_{1'}$, $R_{2'}$, $R_{1"}$, $R_{2"}$, R_3, R_4, $R_{3'}$, $R_{4'}$, R_8, R_{10}, R_a, R_b, $R_{b'}$, U, W, B, E, j', j", i and n are as defined in claim 1; wherein k and m are each independently and at each occurrence selected from an integer in the range from 0 to 4, preferably k is 1 and m is 0; wherein p4 is an integer in the range from 0 to 6; preferably p4 is an integer in the range from 0 to 3, more preferably p4 is 0; and wherein R" is independently selected from hydrogen, C_{1-15} alkyl, C_{2-15} alkenyl, C_{2-15} alkynyl, wherein said C_{1-15} alkyl, C_{2-15} alkenyl, C_{2-15} alkynyl are optionally substituted with a halogen atom, an aryl group or an aralkyl group, preferably R" is independently selected from hydrogen, C_{1-4} alkyl such as methyl, ethyl, propyl, isopropyl, butyl, *tert*-butyl, isobutyl and the like.

7. A compound (C) according to claim 1, or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein compound of formula (II) is a compound chosen among those of formulae (XXVI) to (LIX); (LXIV) to (CXIII) or (CLVIII) to herein below:

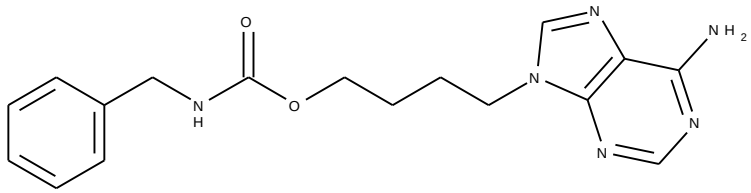


formula (XXVI)

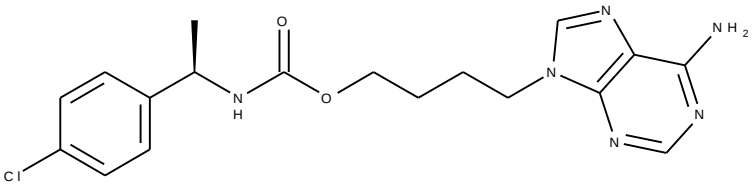


formula (XXVII)

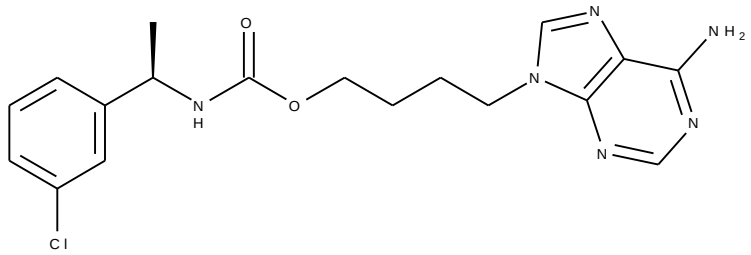
formula (XXVIII)



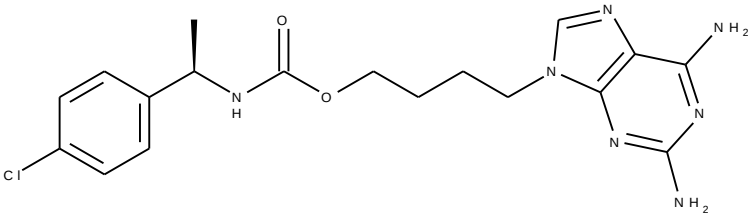
formula (XXIX)



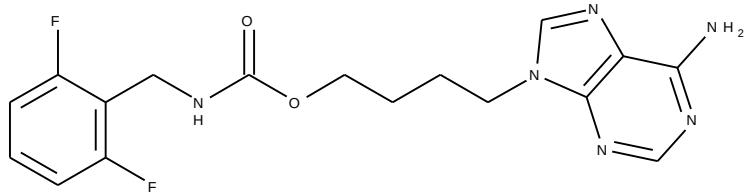
formula (XXX)



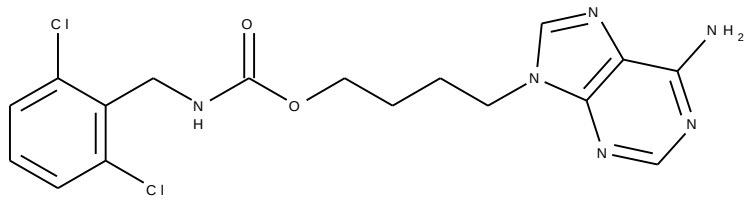
formula (XXXI)

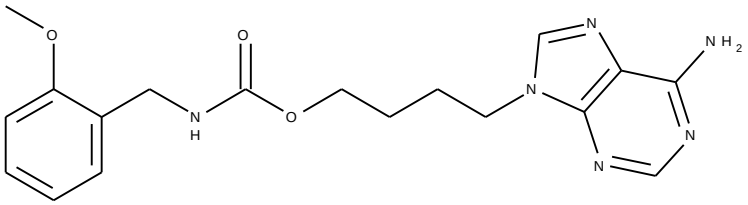


formula (XXXII)

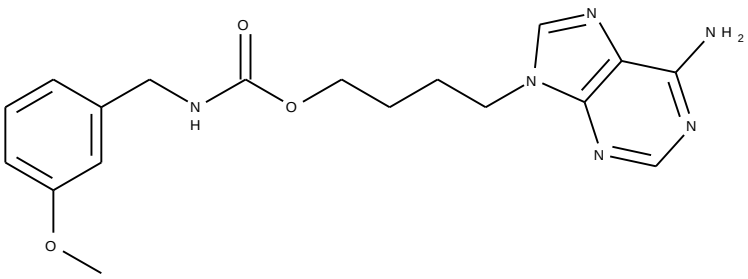


formula (XXXIII)

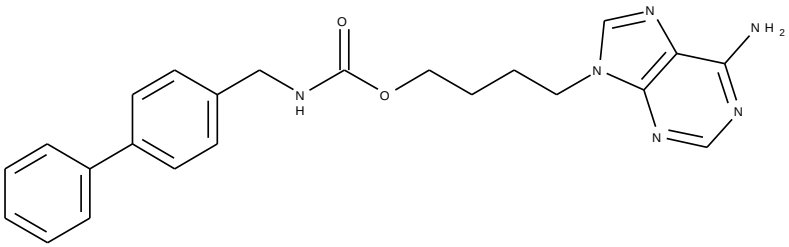




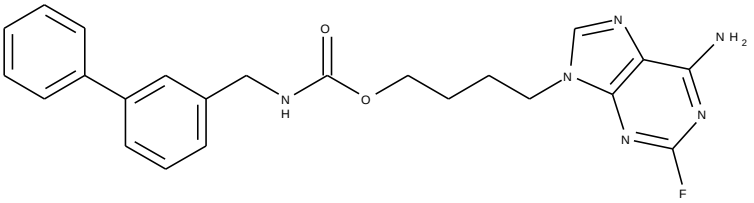
formula (XXXIV)



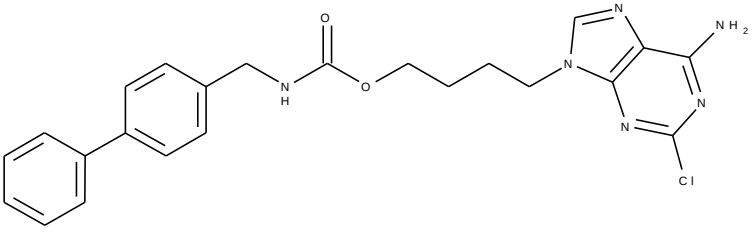
formula (XXXV)



formula (XXXVI)

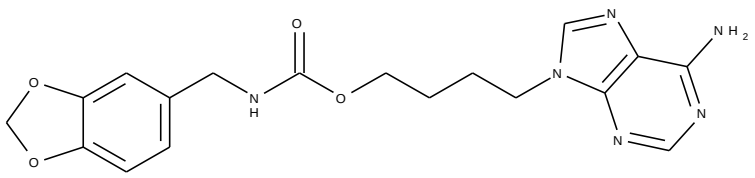


formula (XXXVI - 1)

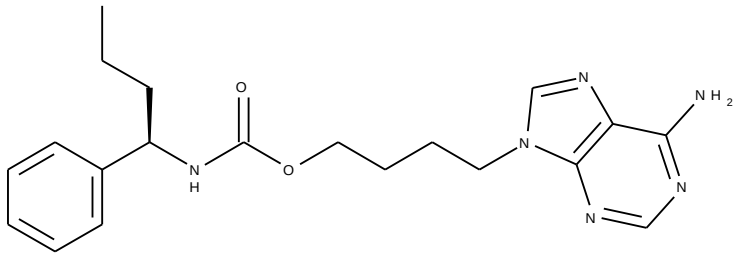


formula (XXXVI - 2)

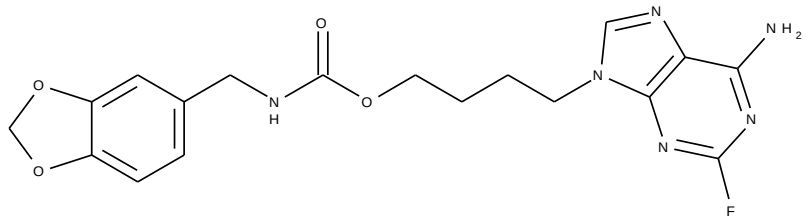
formula (XXXVII)



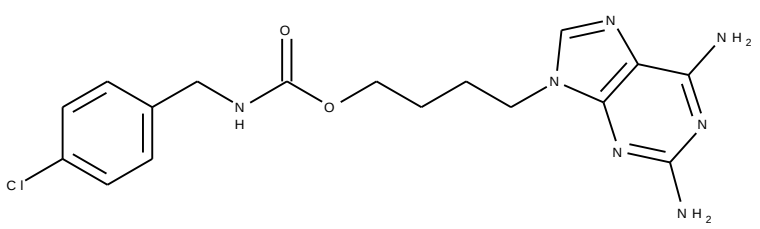
formula (XXXVIII)



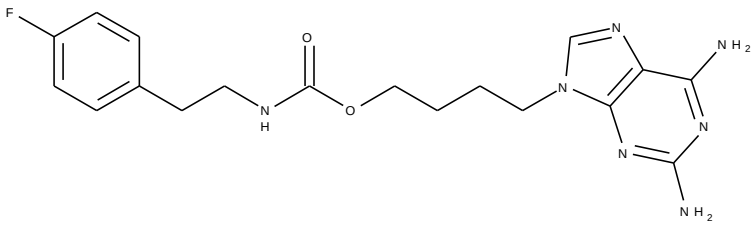
formula (XXXIX)



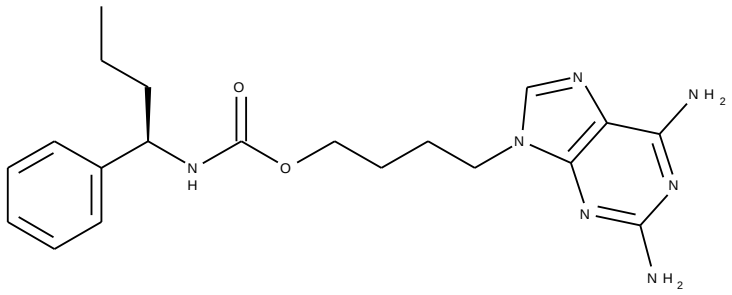
formula (XL)

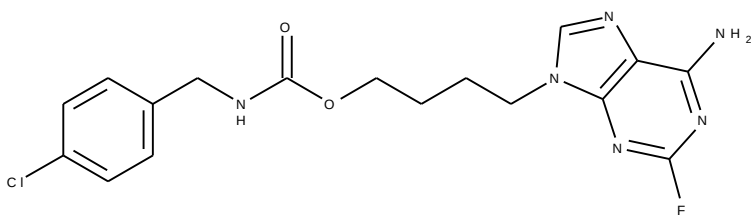


formula (XLI)

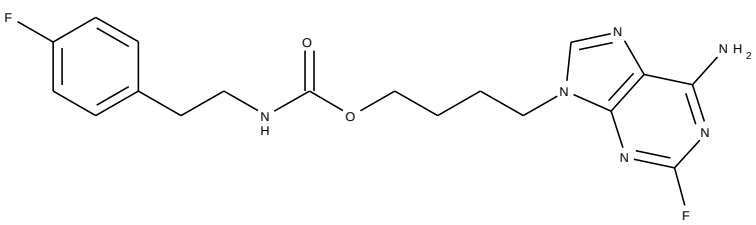


formula (XLII)

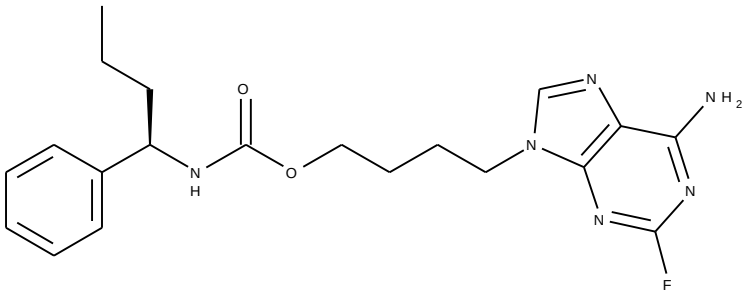




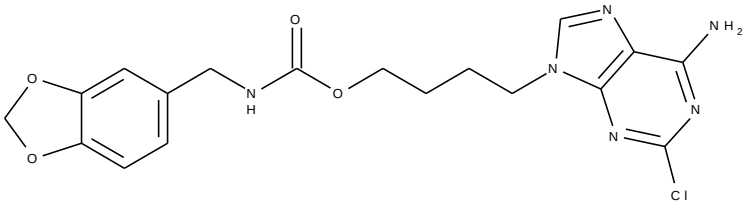
formula (XLIII)



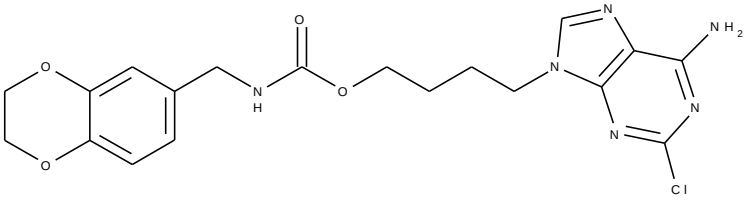
formula (XLIV)



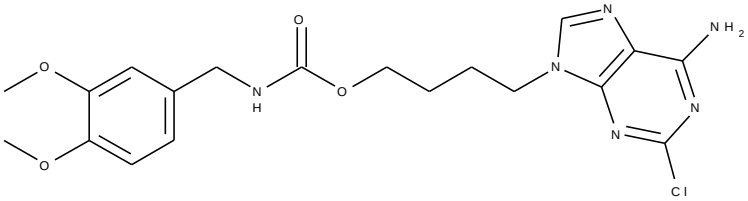
formula (XLV)



formula (XLVI)

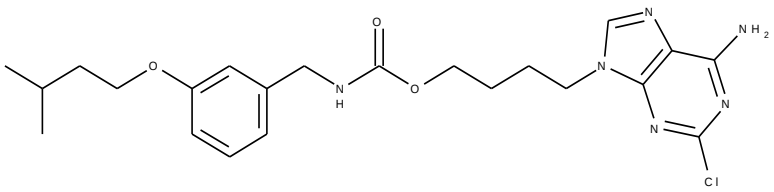


formula (XLVI - 1)

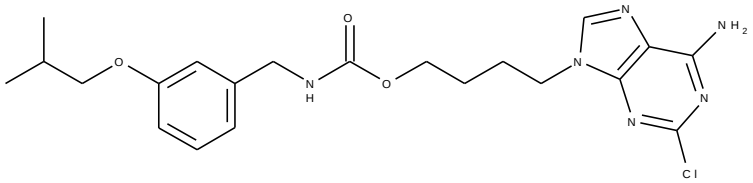


formula (XLVI - 2)

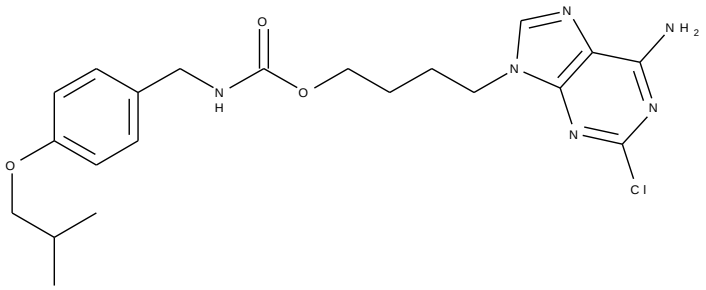
formula (XLVI - 3)



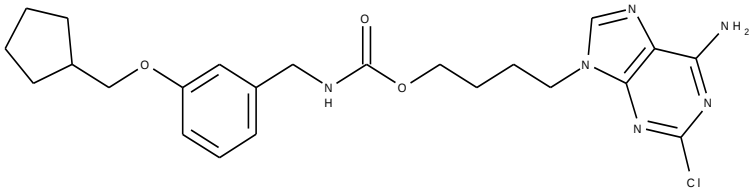
formula (XLVI - 4)



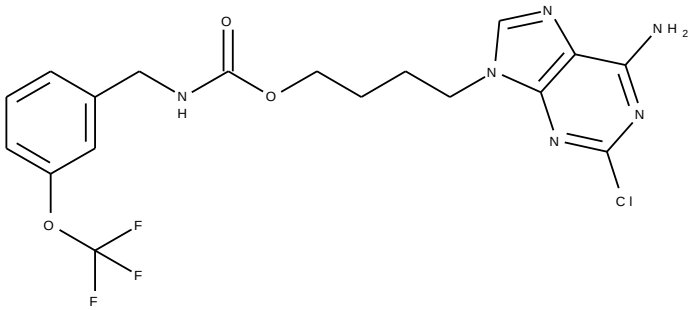
formula (XLVI - 5)



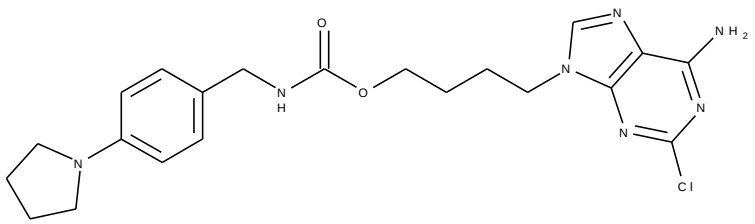
formula (XLVI - 6)

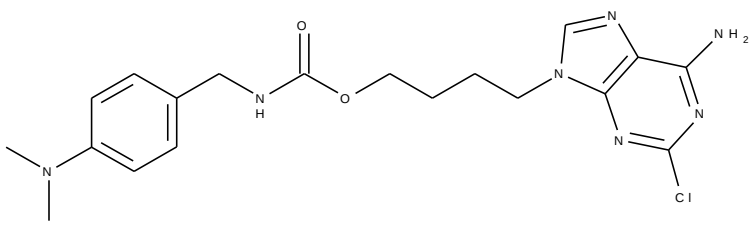


formula (XLVI - 7)

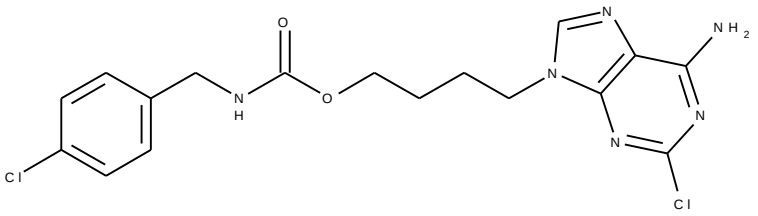


formula (XLVI - 8)

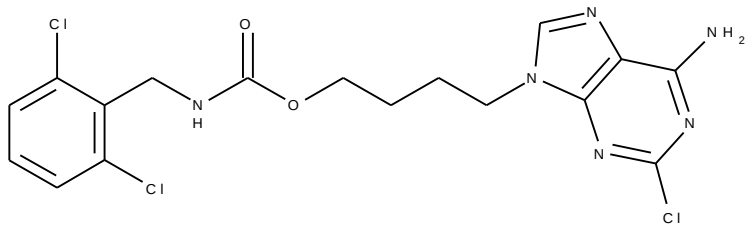




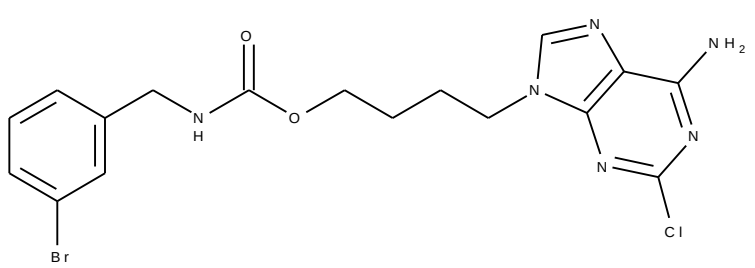
formula (XLVI - 9)



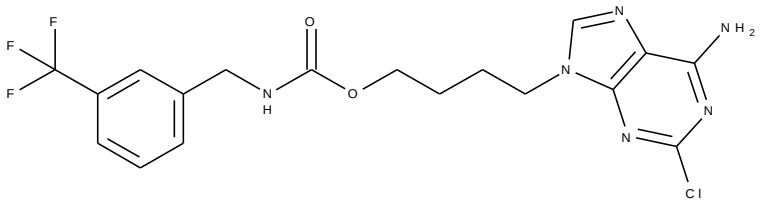
formula (XLVII)



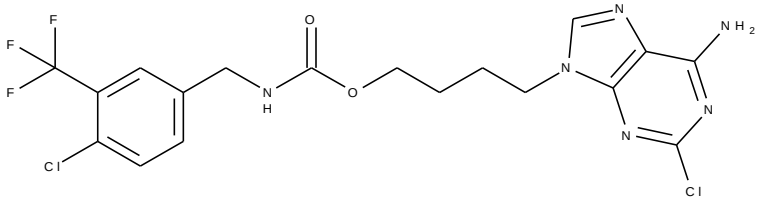
formula (XLVII - 1)



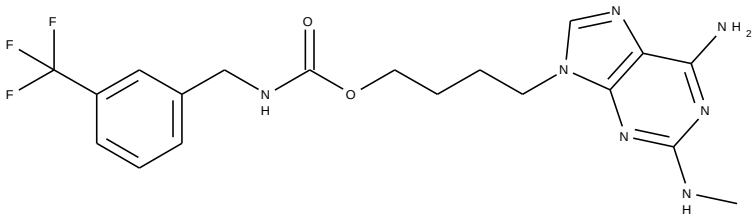
formula (XLVIII)



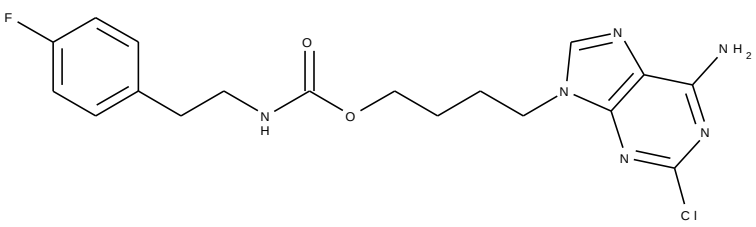
formula (XLIX)



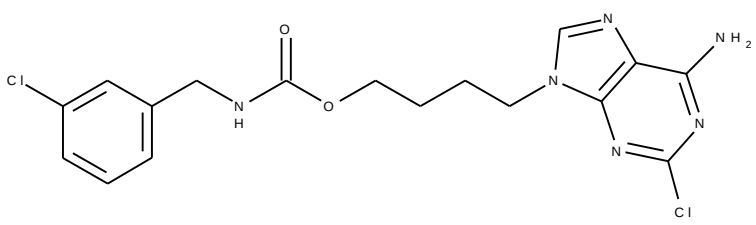
formula (XLIX - 1)



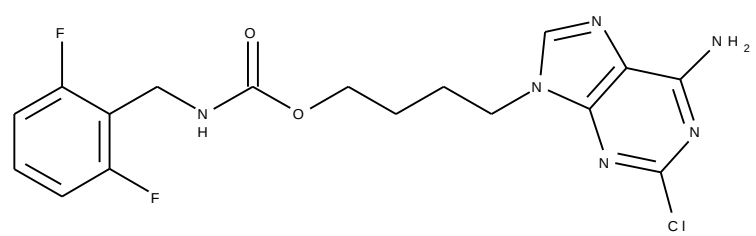
formula (L)



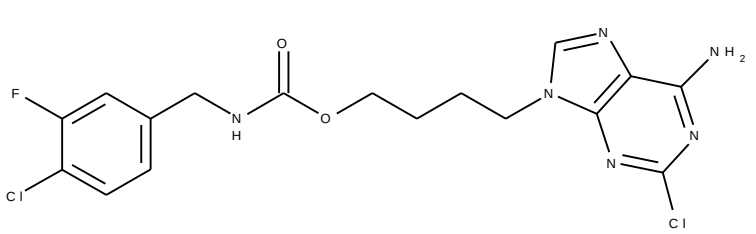
formula (LI)



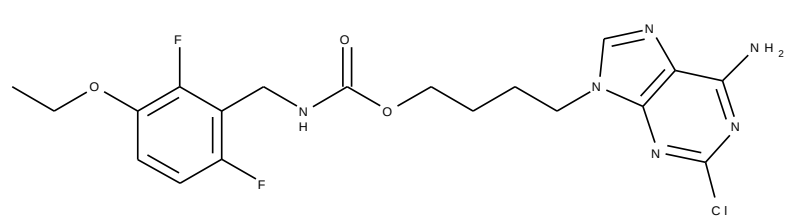
formula (LI - 1)



formula (LI - 2)

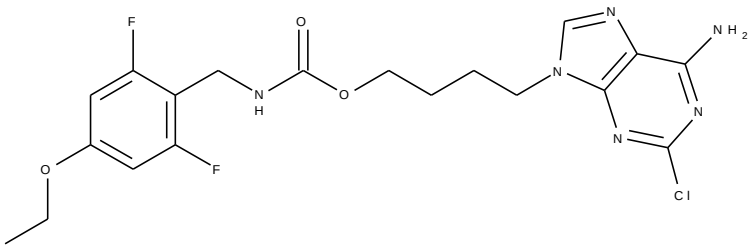


formula (LI - 3)

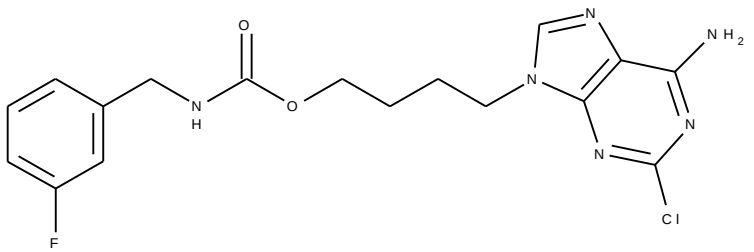


formula (LI - 4)

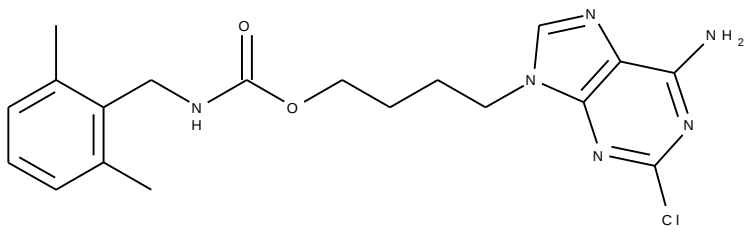
formula (LI - 5)



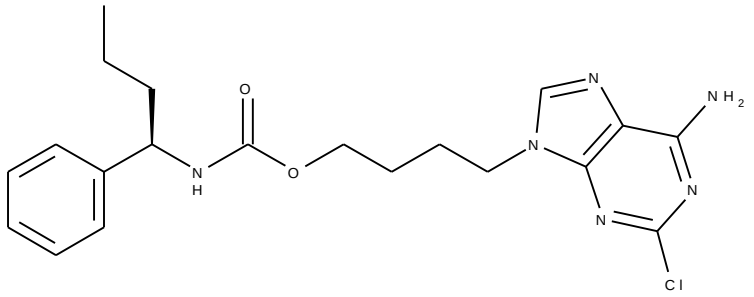
formula (LI - 6)



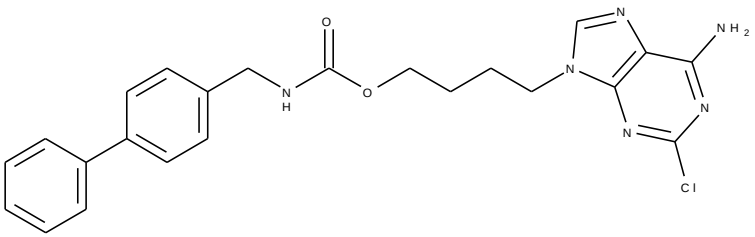
formula (LI - 7)



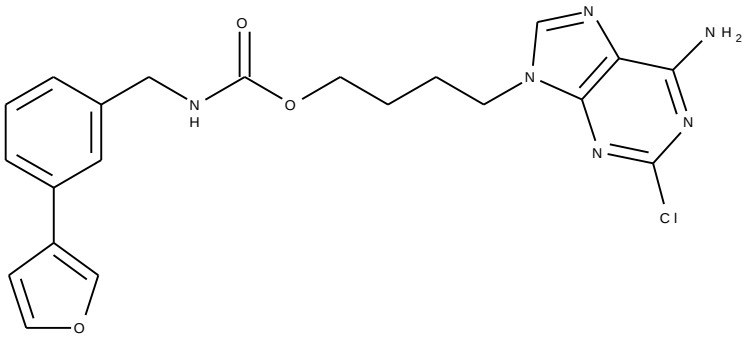
formula (LII)



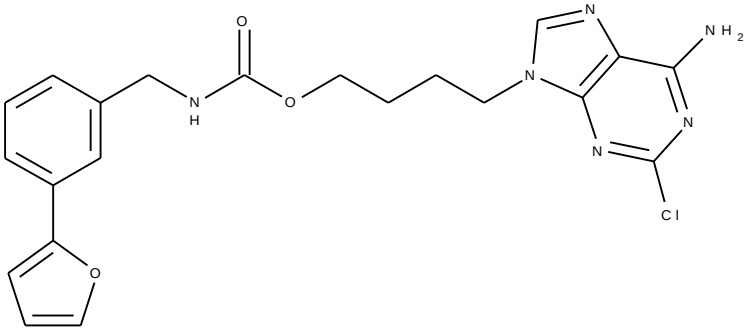
formula (LIII)



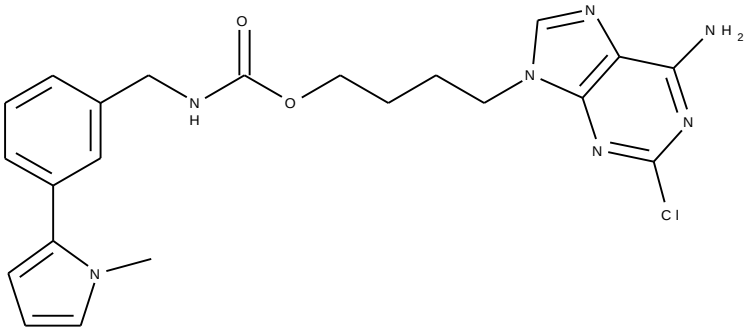
formula (LIII - 1)



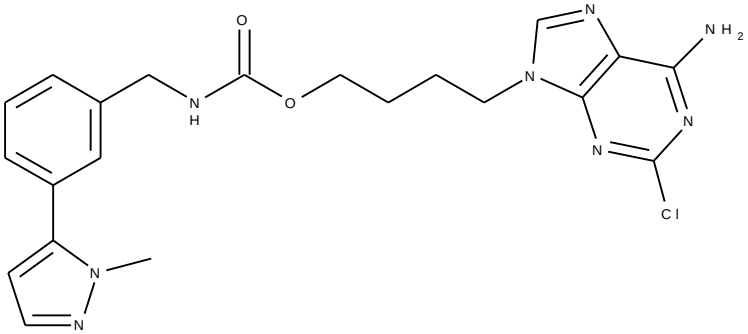
formula (LIII - 2)



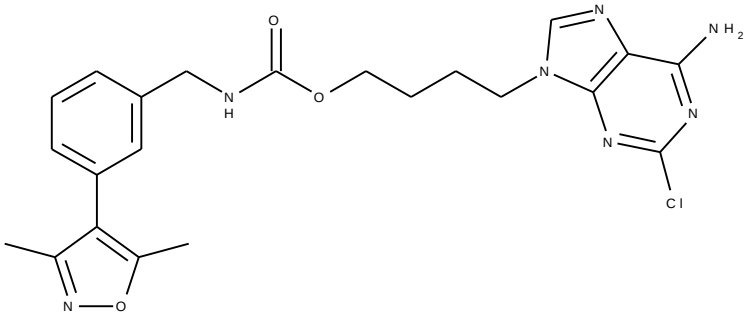
formula (LIII - 3)



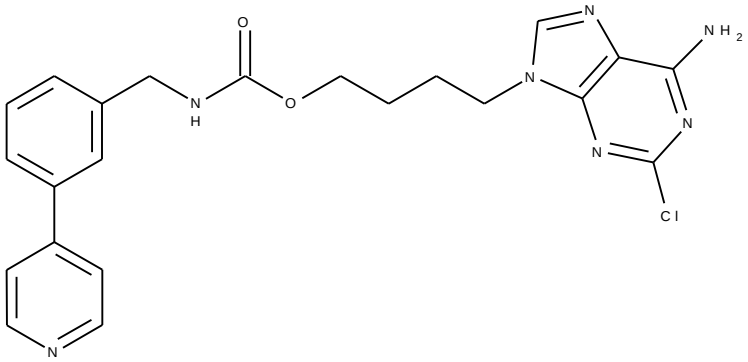
formula (LIII - 4)



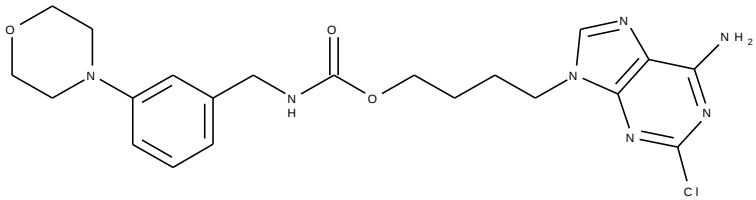
formula (LIII - 5)



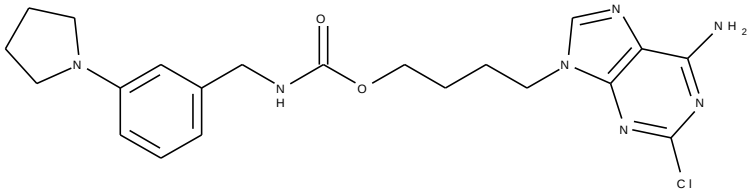
formula (LIII - 6)



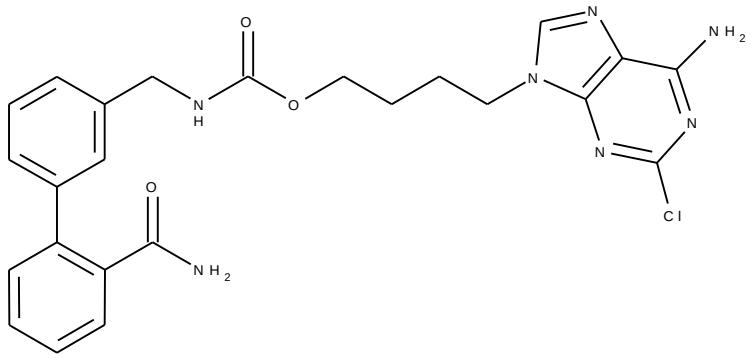
formula (LIII - 7)



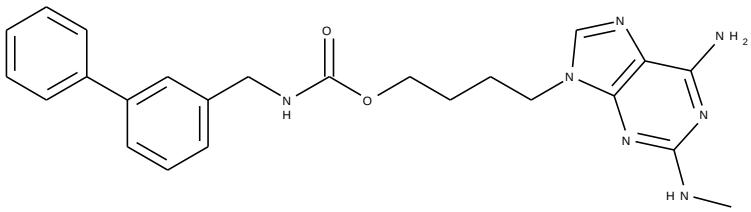
formula (LIII - 8)



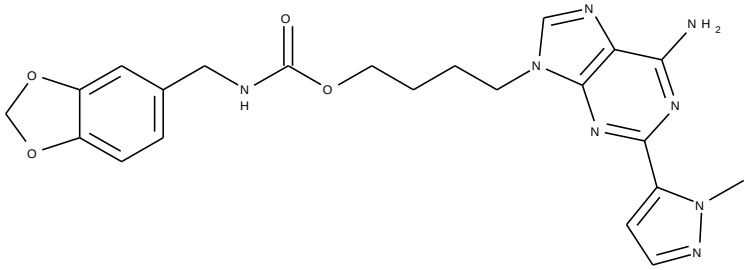
formula (LIII - 9)



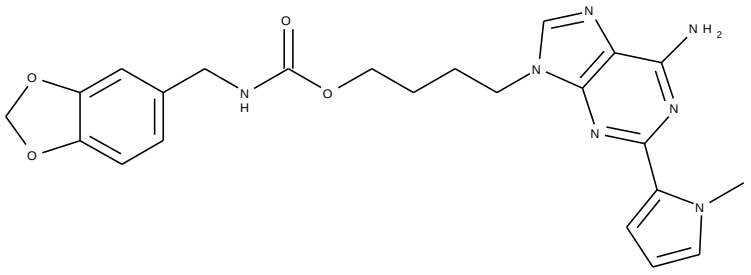
formula (LIV)



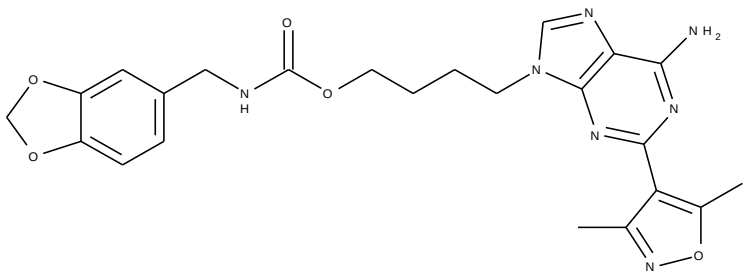
formula (LV)



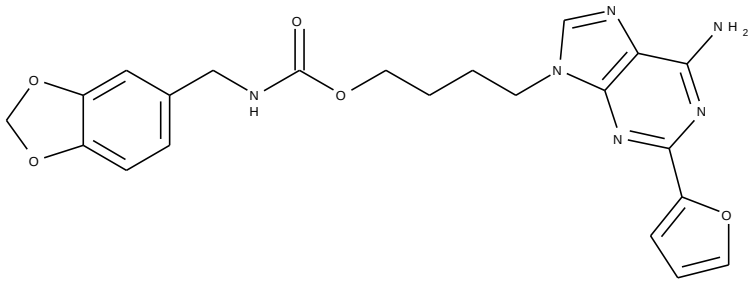
formula (LV-1)



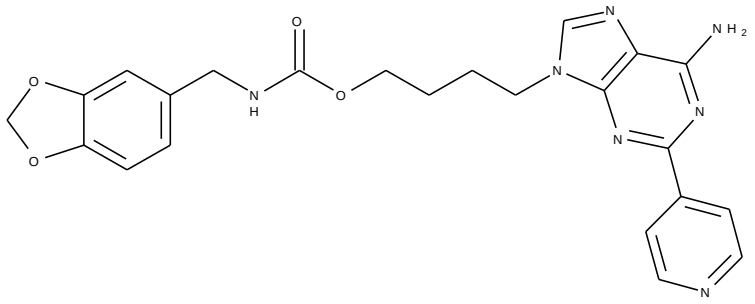
formula (LV-2)



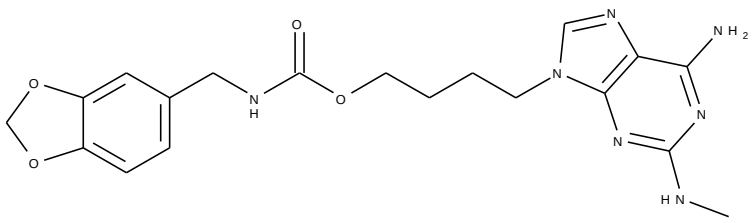
formula (LVI)



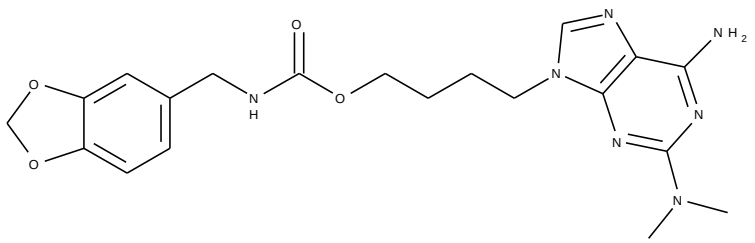
formula (LIX)



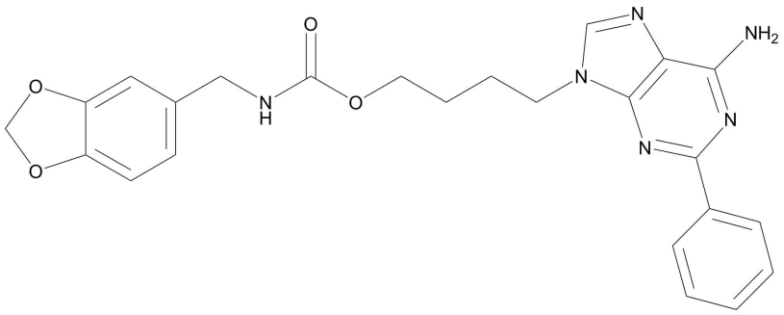
formula (LVIII)



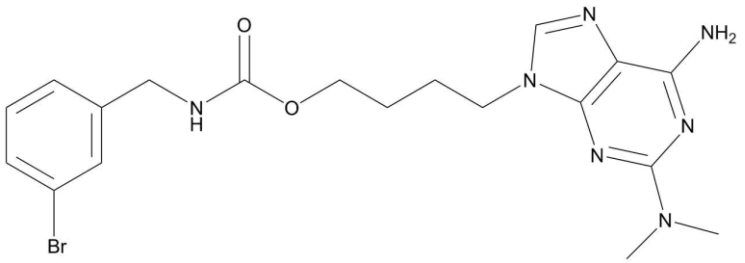
formula (LVIII - 1)



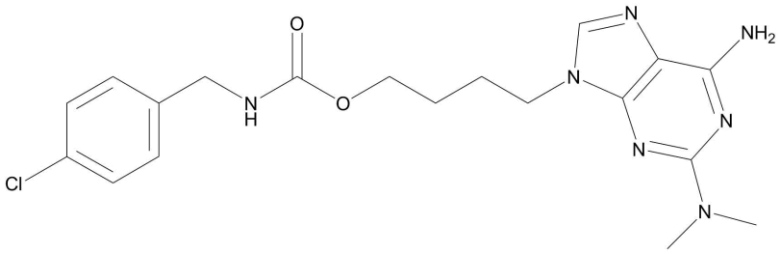
formula (CLVIII)



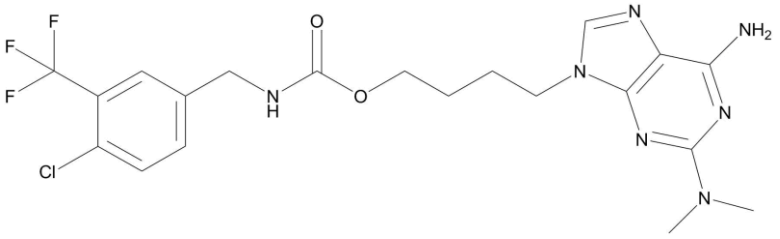
formula (LXIV)

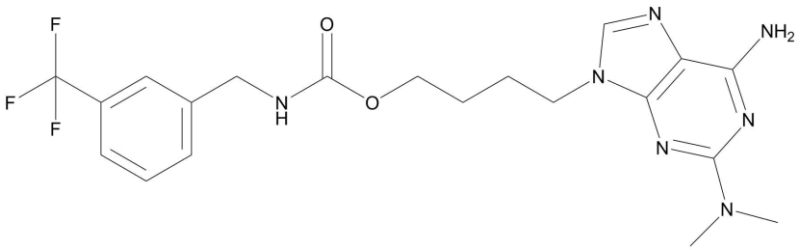


formula (LXV)

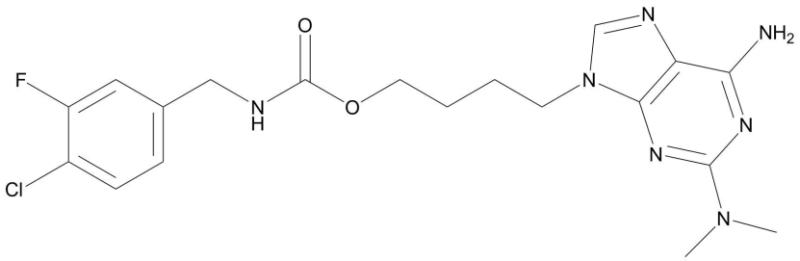


formula (LXVI)

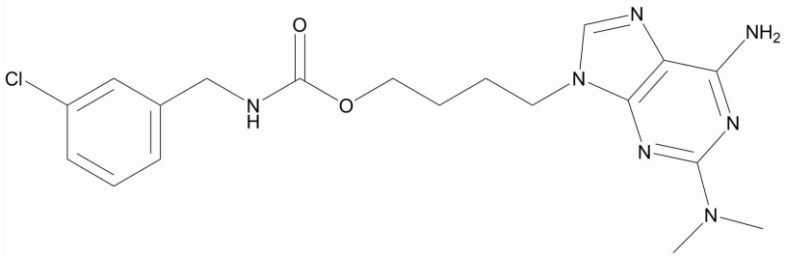




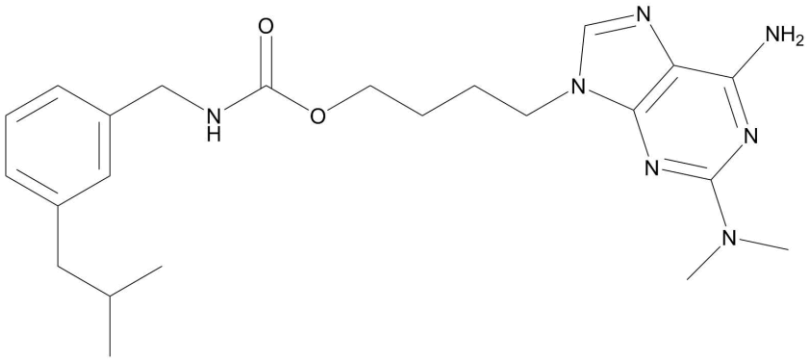
formula (LXVII)



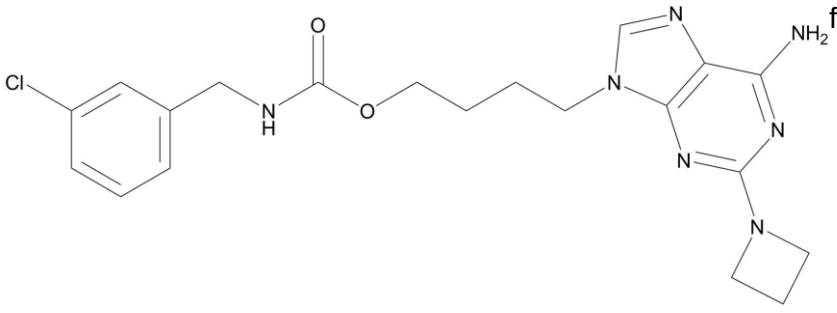
formula (LXVIII)



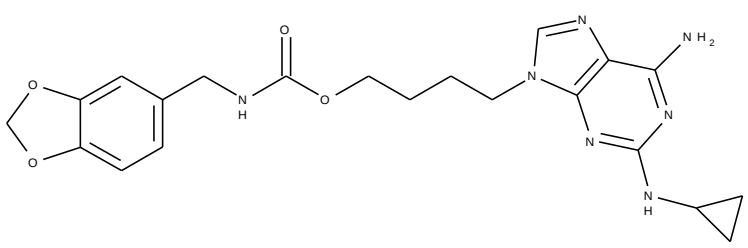
formula (LXIX)



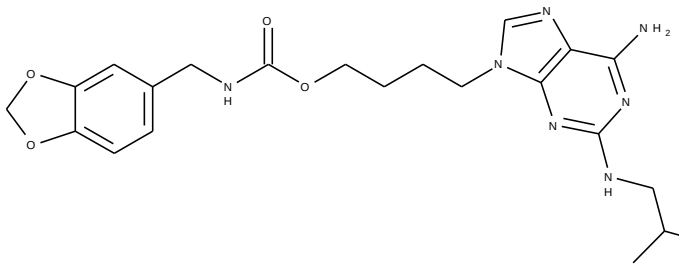
formula (LXX)



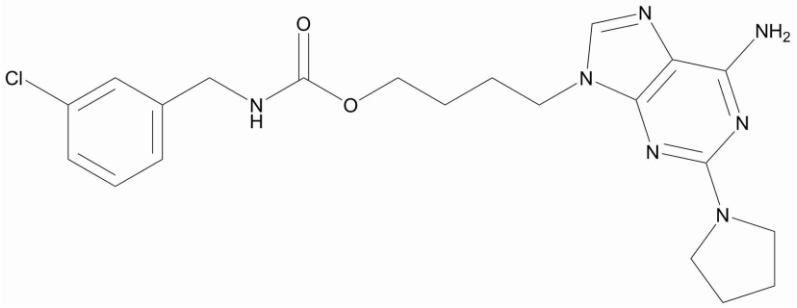
formula (LXXI)



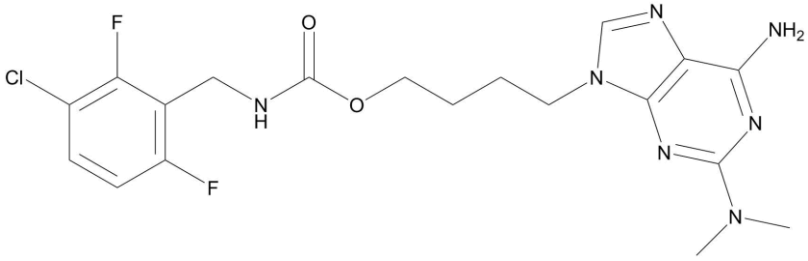
formula (LXXI - 1)



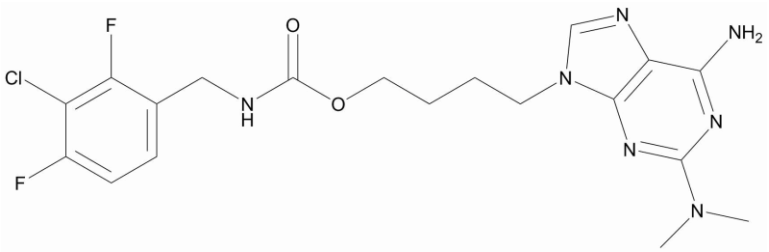
formula (LXXI - 2)



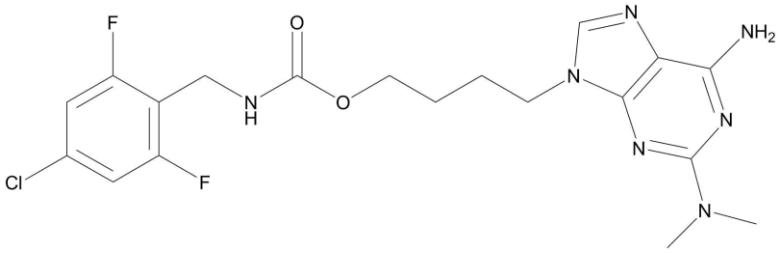
formula (LXXII)



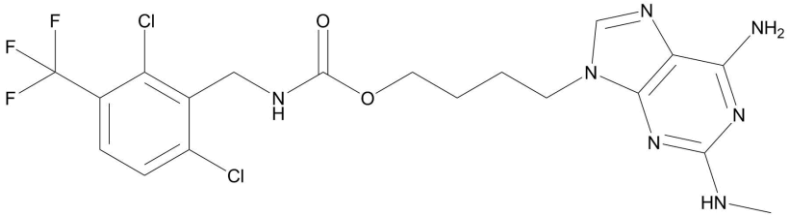
formula (LXXIII)



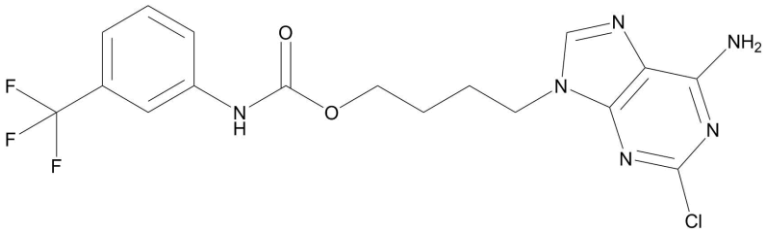
formula (LXXIV)



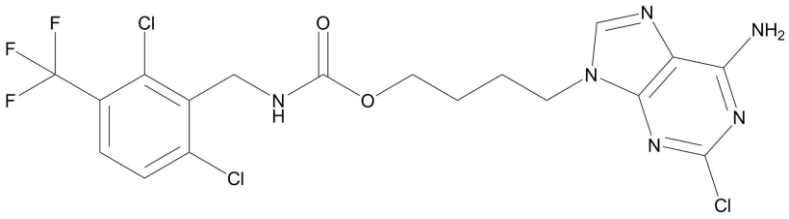
formula (LXXV)



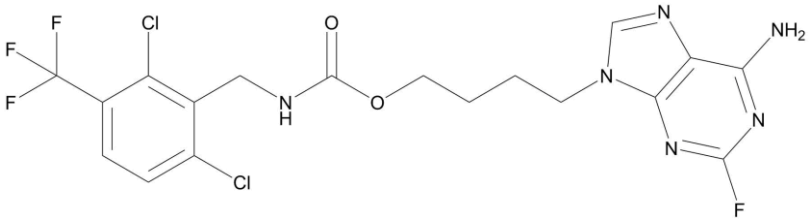
formula (LXXVI)



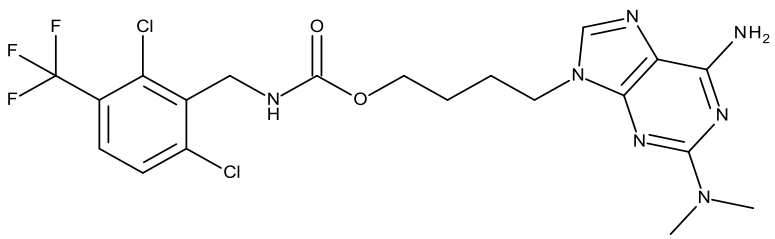
formula (LXXVII)



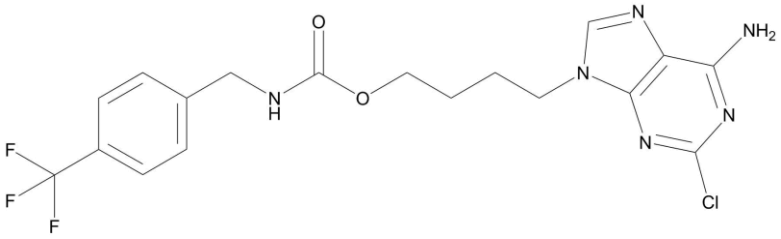
formula (LXXVIII)



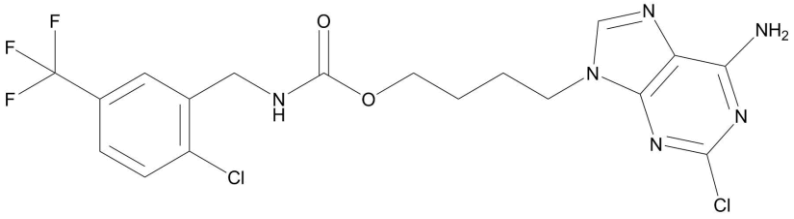
formula (LXXIX)



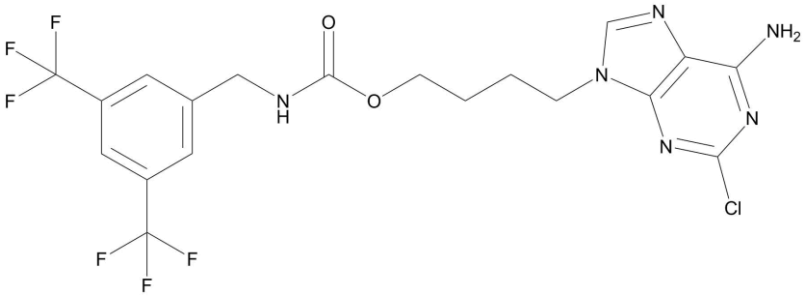
formula (LXXX)



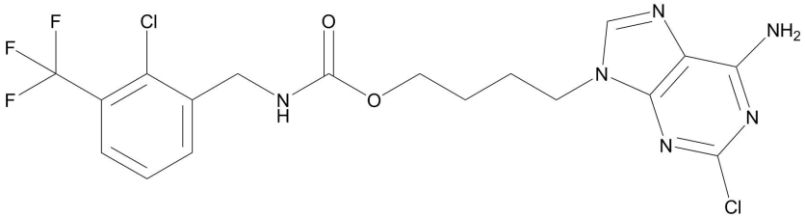
formula (LXXXI)



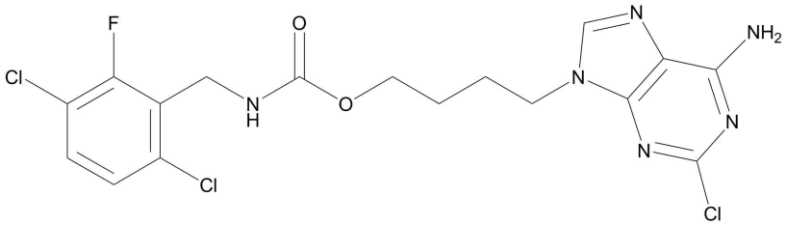
formula (LXXXII)



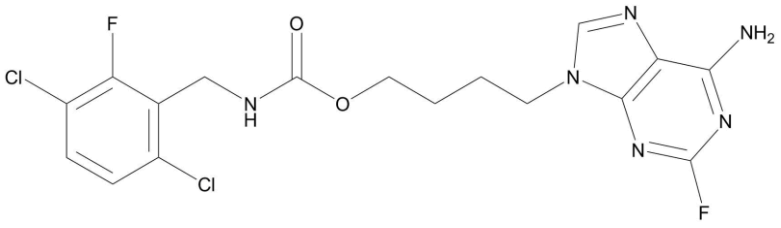
formula (LXXXIII)



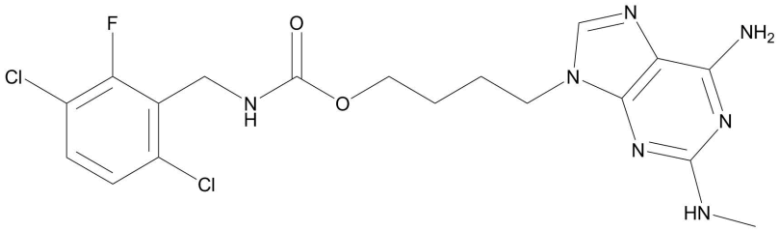
formula (LXXXIV)



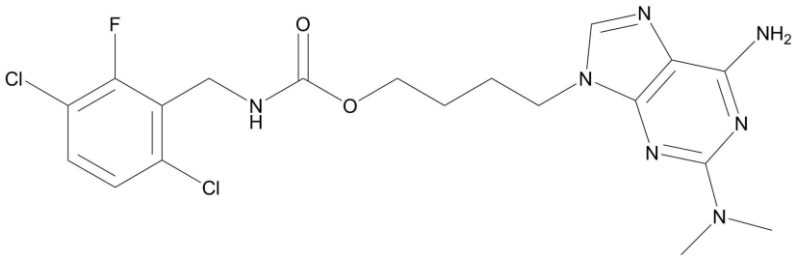
formula (LXXXV)



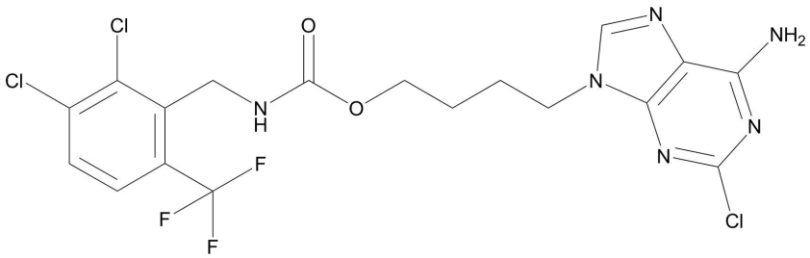
formula (LXXXVI)



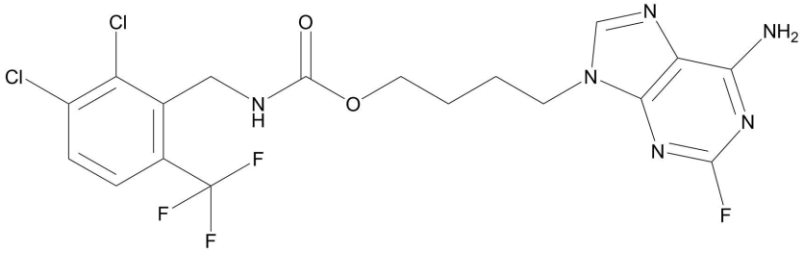
formula (LXXXVII)



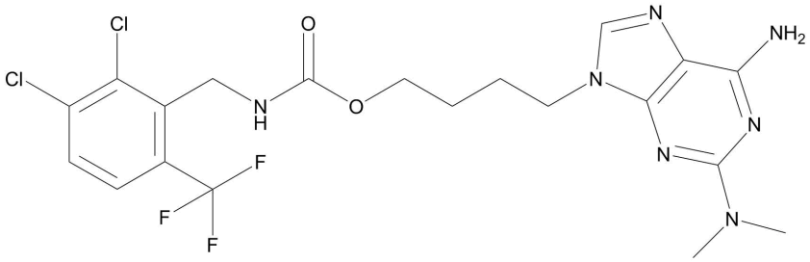
formula (LXXXVIII)



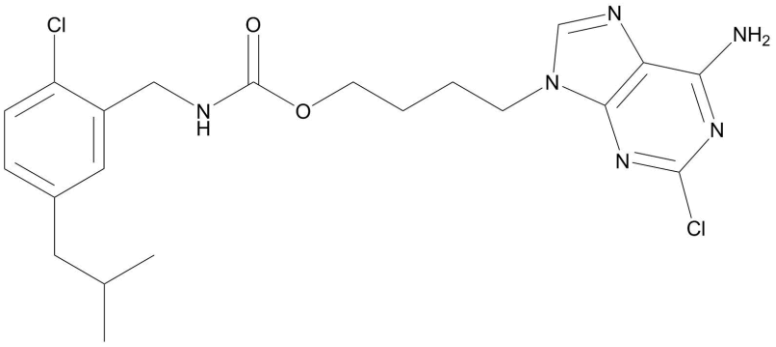
formula (LXXXIX)



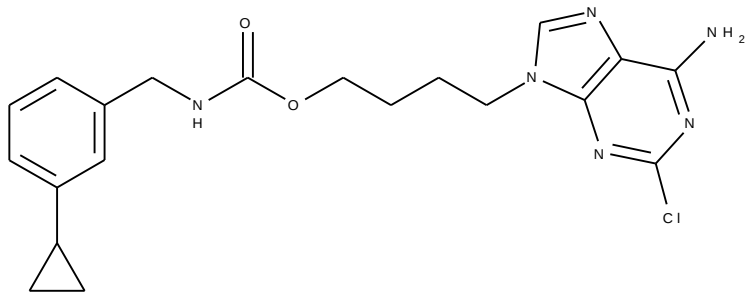
formula (XC)



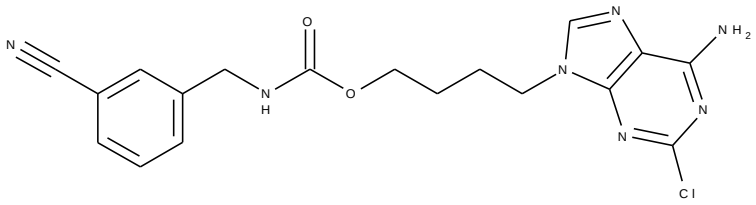
formula (XCI)



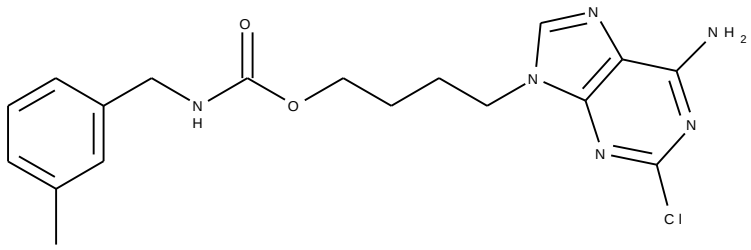
formula (XCII)



formula (XCII -1)

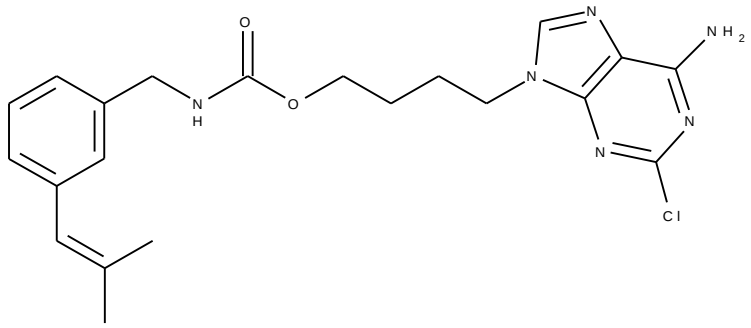


formula (XCII -2)

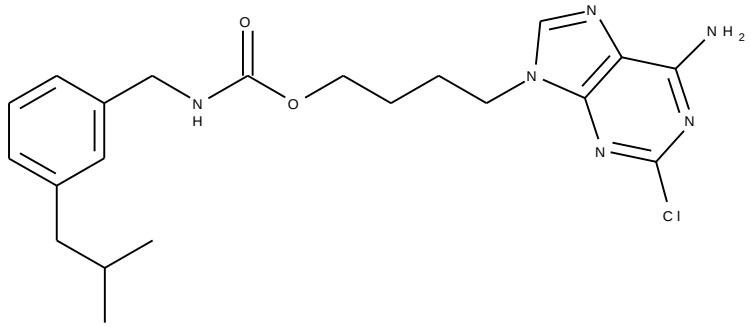


formula (XCII - 3)

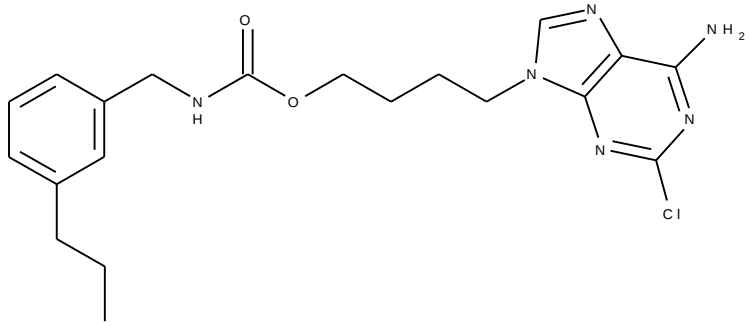
formula (XCII - 4)



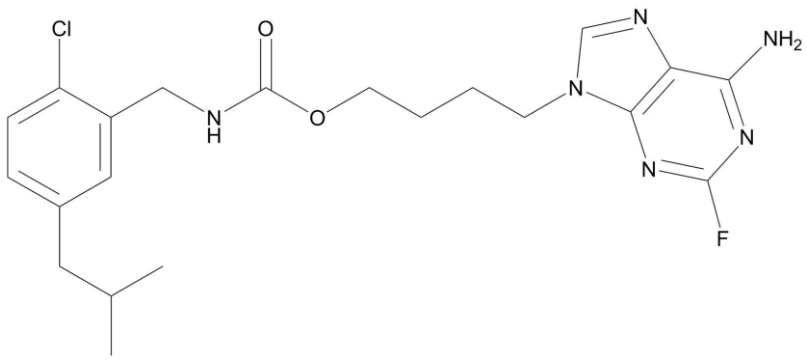
formula (XCII -5)

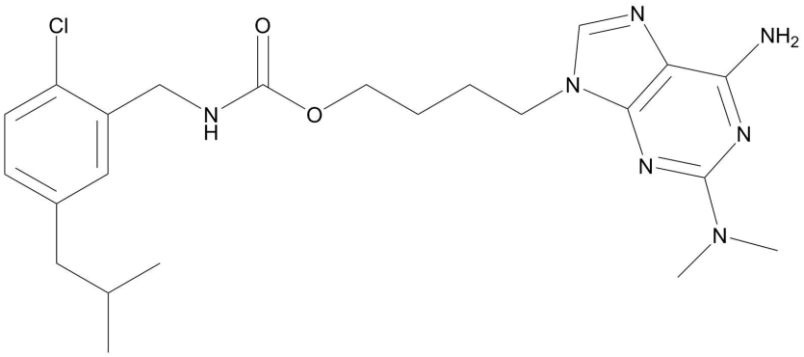


formula (XCII -6)

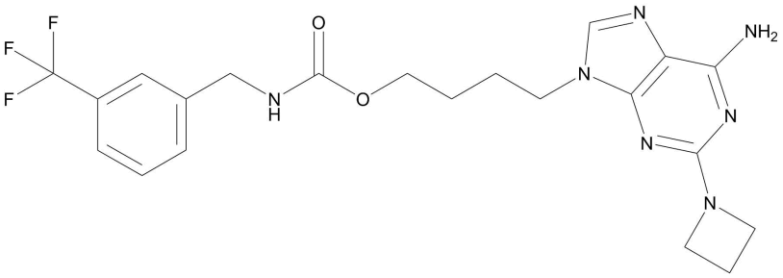


formula (XCII -7)

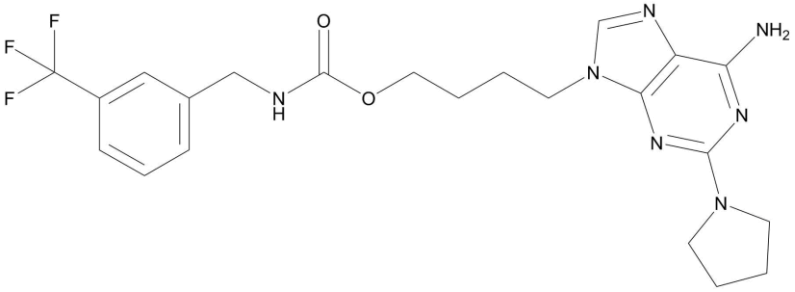




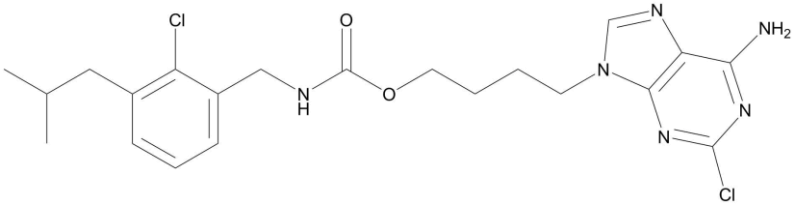
formula (XCIV)



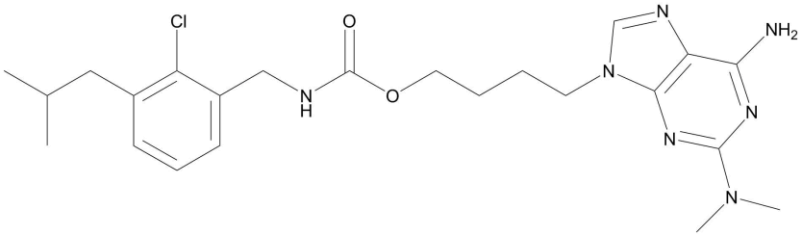
formula (XCV)



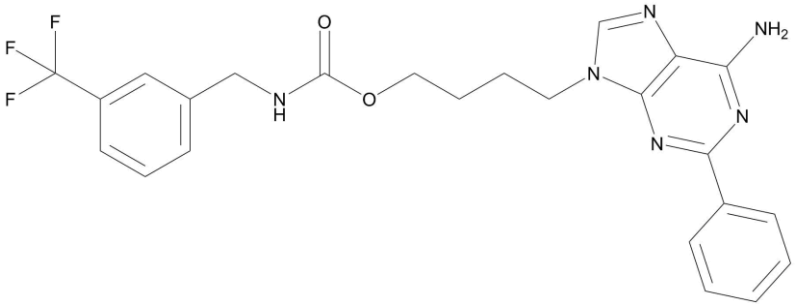
formula (XCVI)



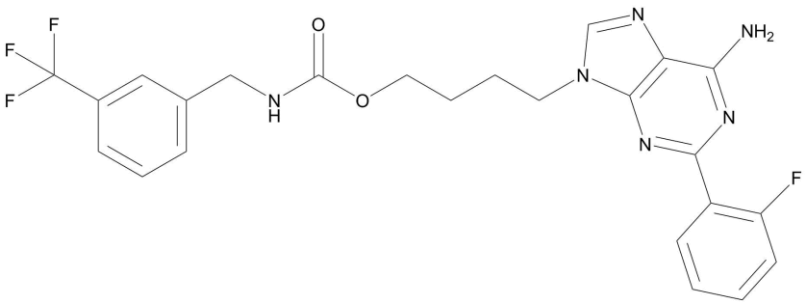
formula (XCVII)



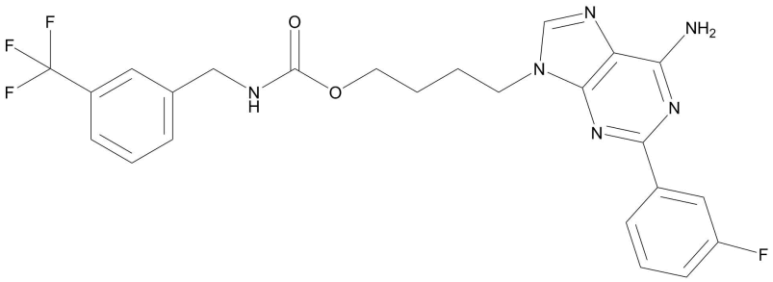
formula (XCVIII)



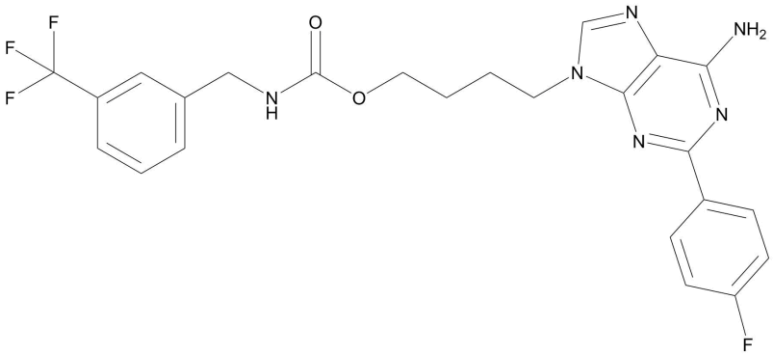
formula (XCIX)



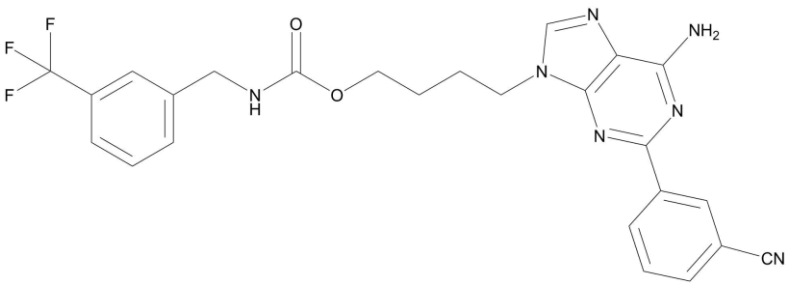
formula (C)



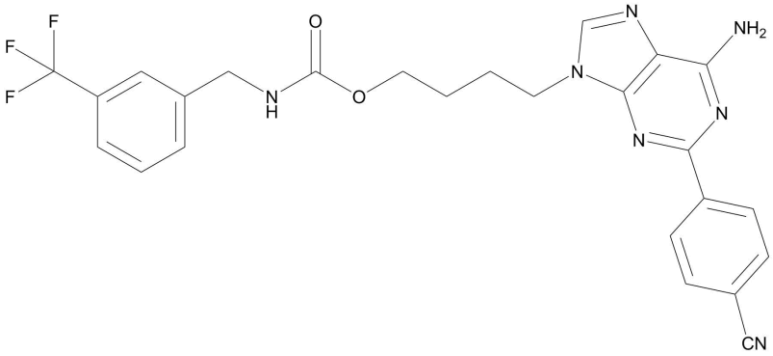
formula (CI)



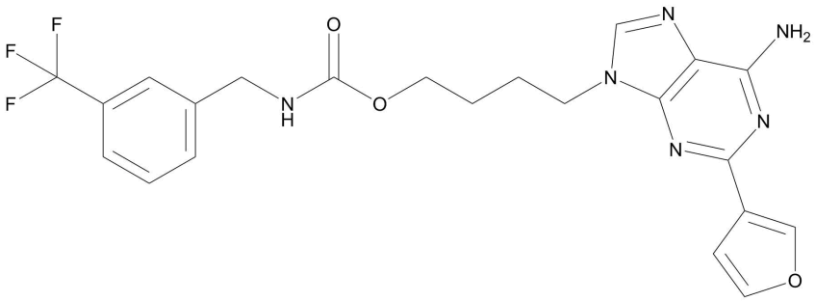
formula (CII)



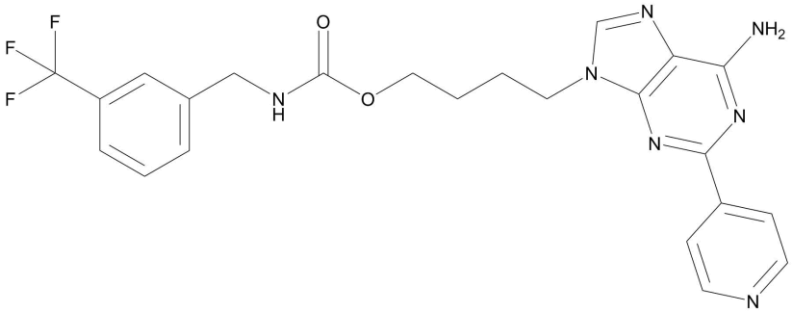
formula (CIII)



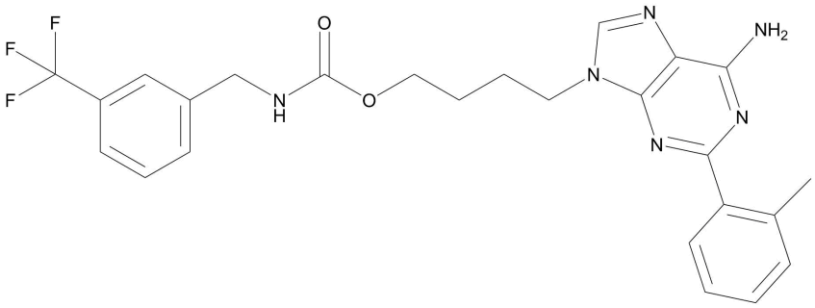
formula (CIV)



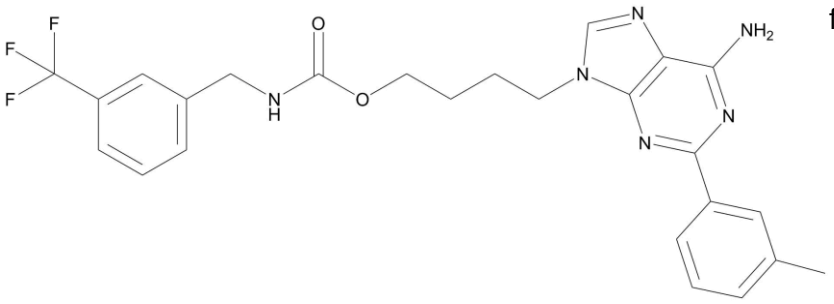
formula (CV)



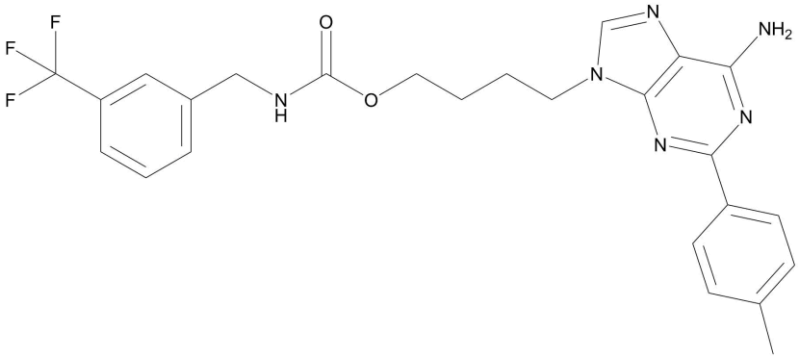
formula (CVI)



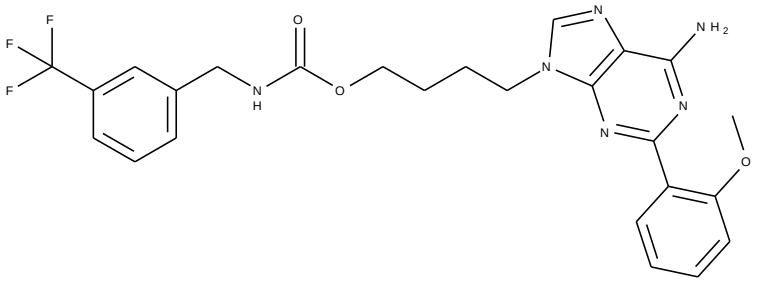
formula (CVII)



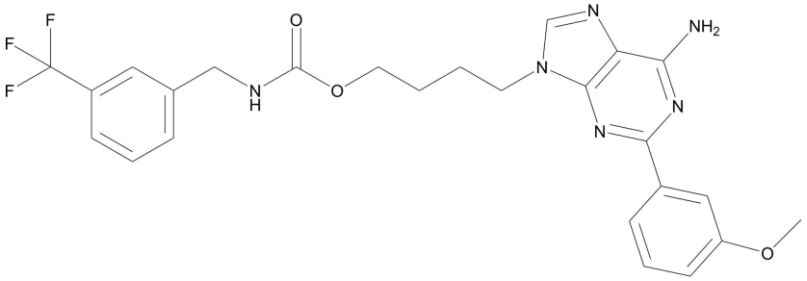
formula (CVIII)



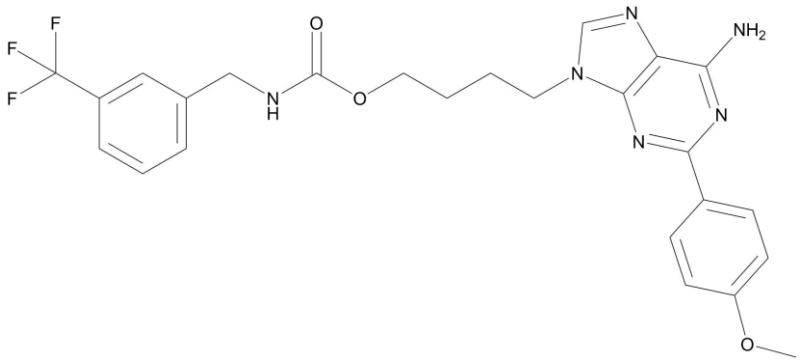
formula (CIX)



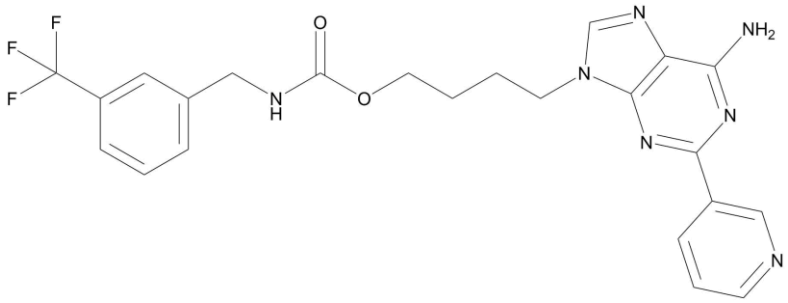
formula (CX)



formula (CXI)

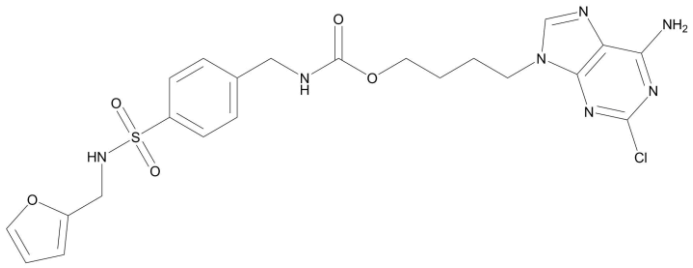


formula (CXII)

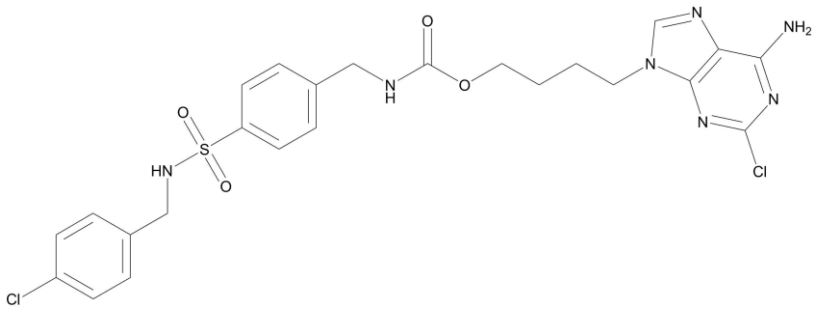


formula (CXIII)

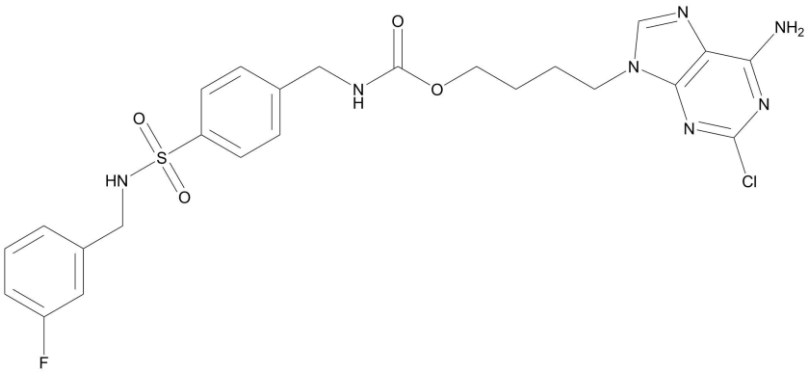
8. The compound (C) according to claim 1, or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein compound of formula (II) is a compound chosen among those of formulae (CXIV) to (CXLVII) herein below



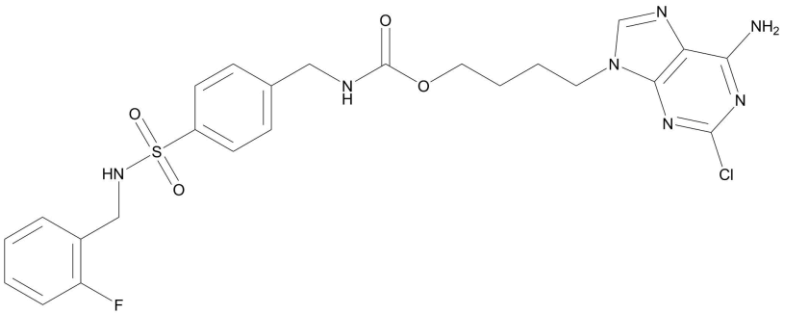
formula (CXIV)



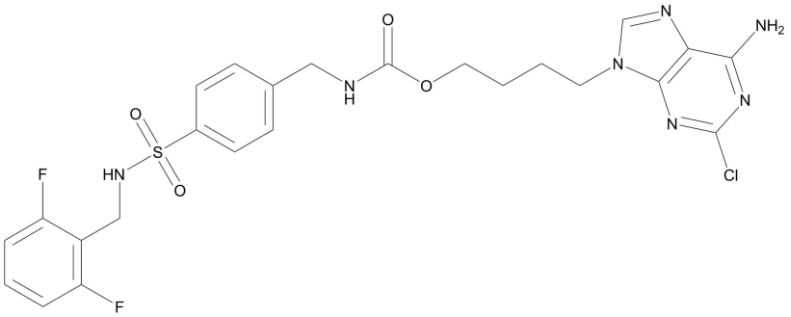
formula (CXV)



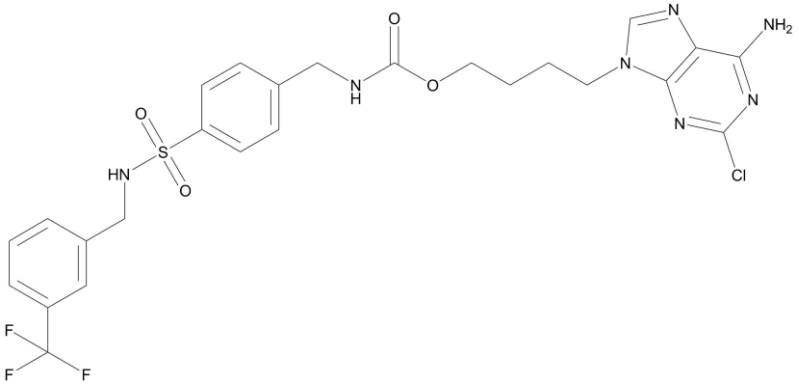
formula (CXVI)



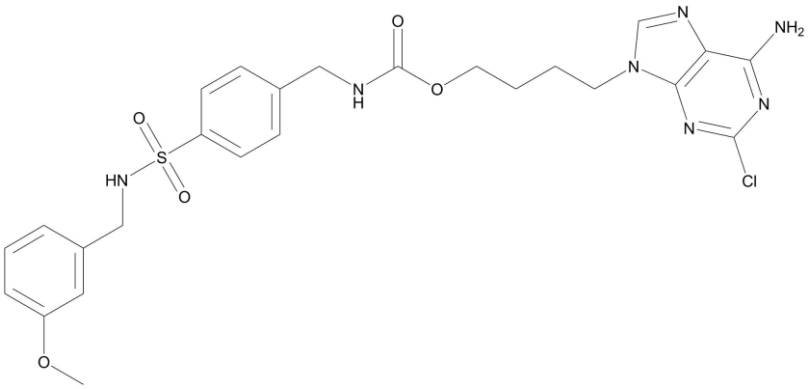
formula (CXVII)



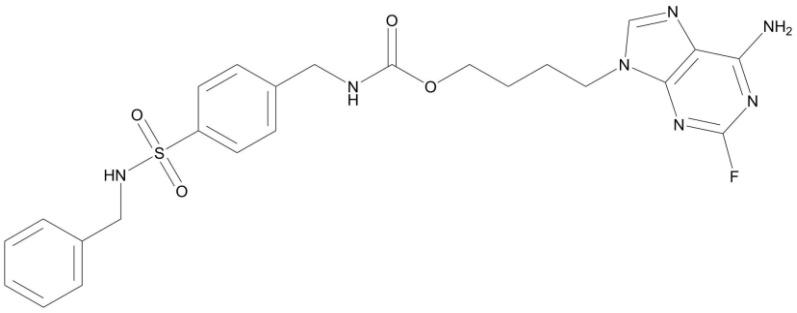
formula (CXVIII)



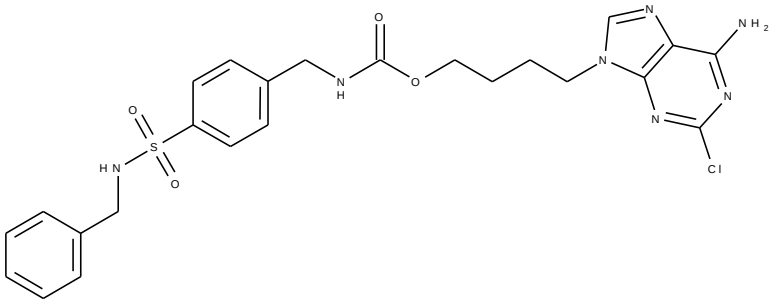
formula (CXIX)



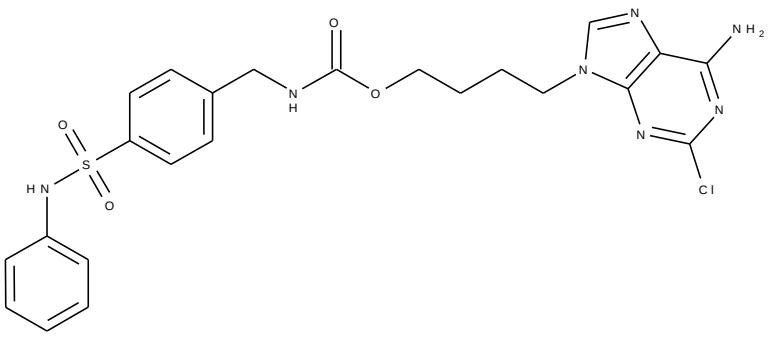
formula (CXX)



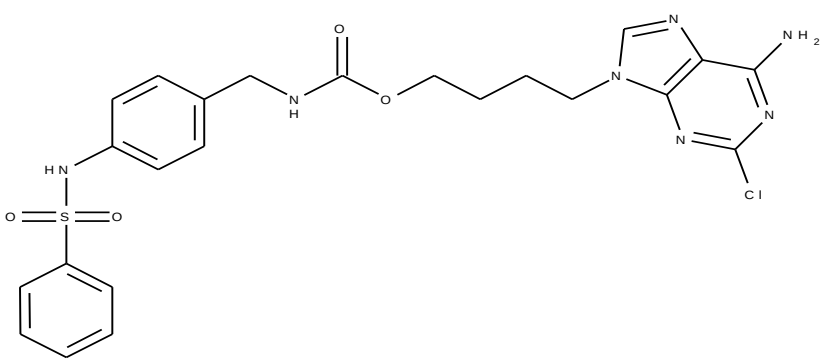
formula (CXXI)



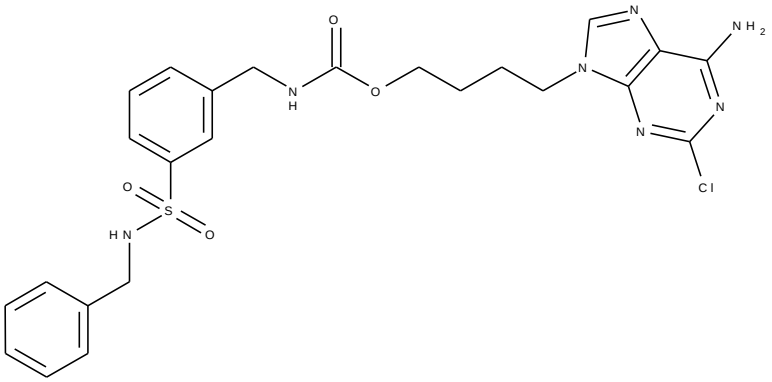
formula (CXXI - 1)



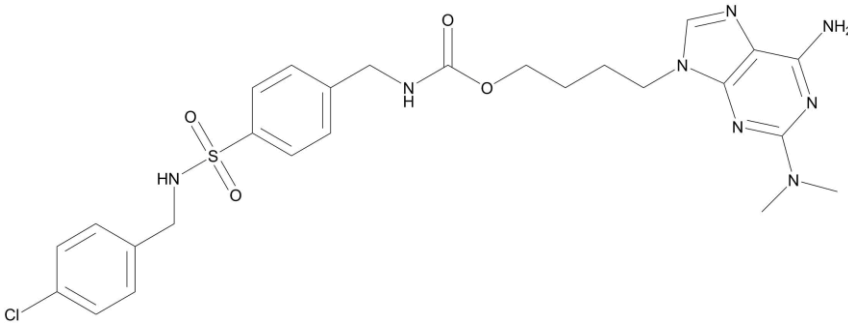
formula (CXXI - 2)



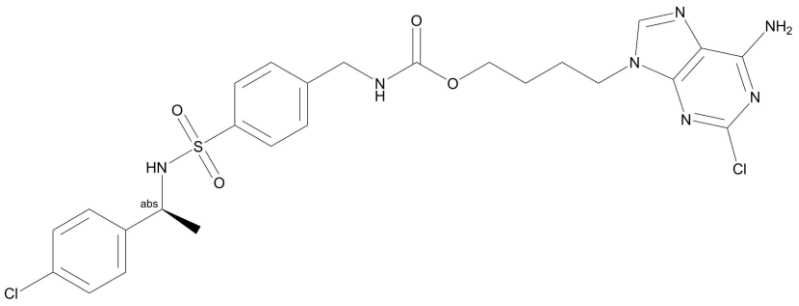
formula (CXXI - 3)



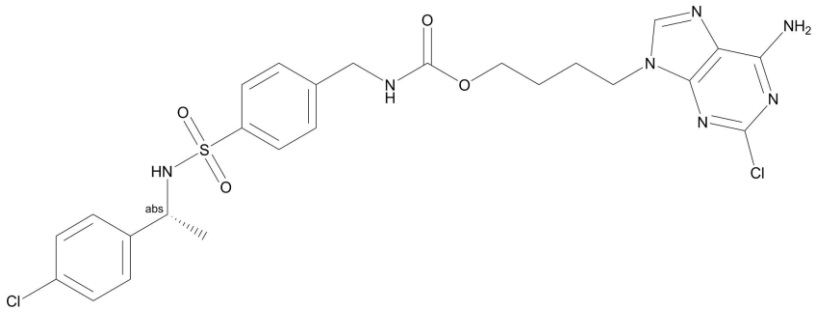
formula (CXXI - 4)



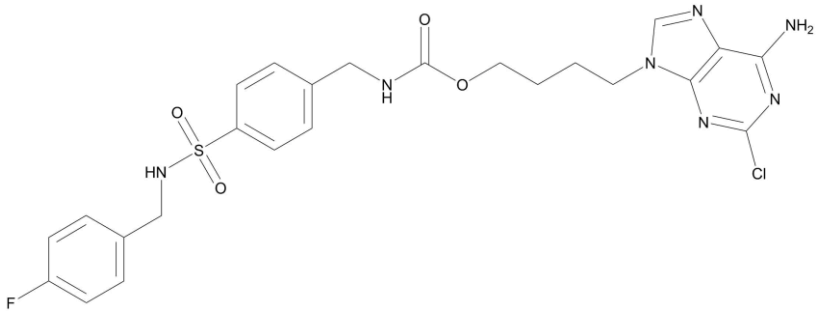
formula (CXXII)



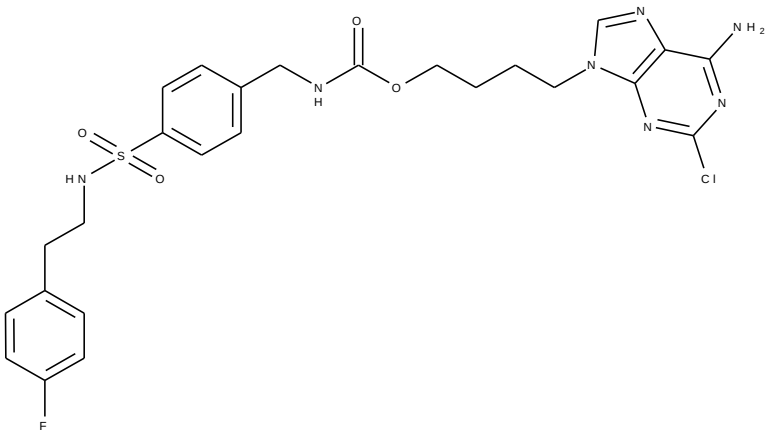
Formula (CXXIII)



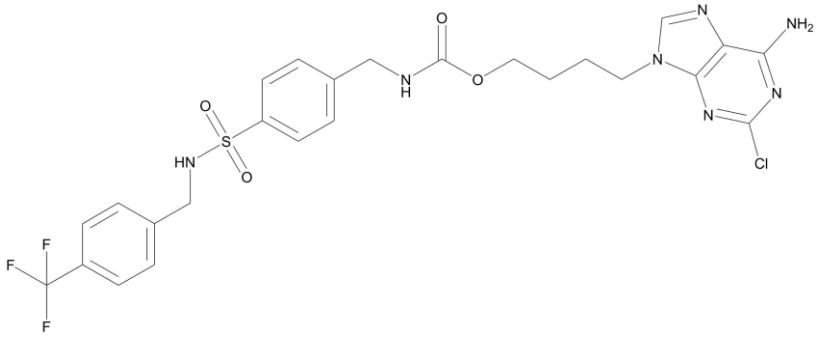
formula (CXXIV)



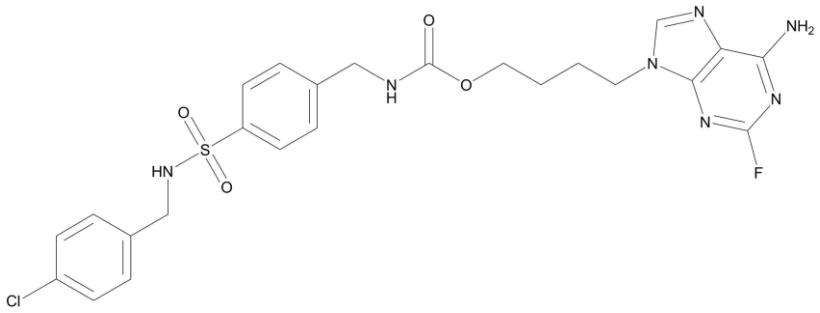
formula (CXXV)



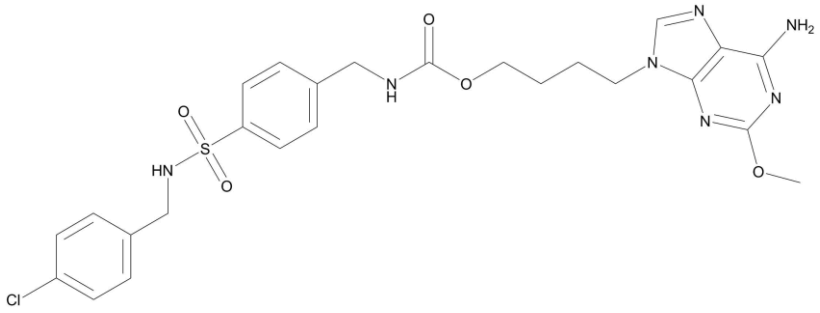
formula (CXXV - 1)



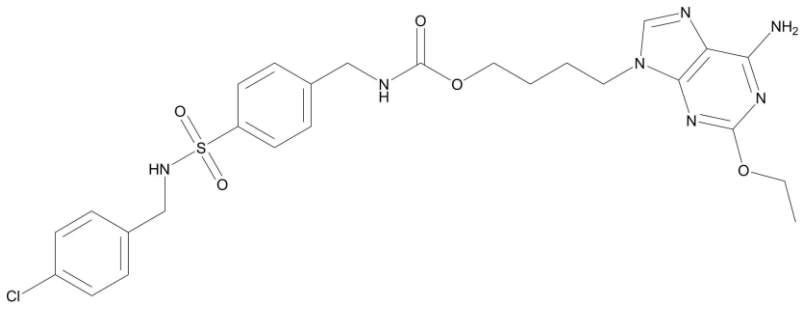
formula (CXXVI)



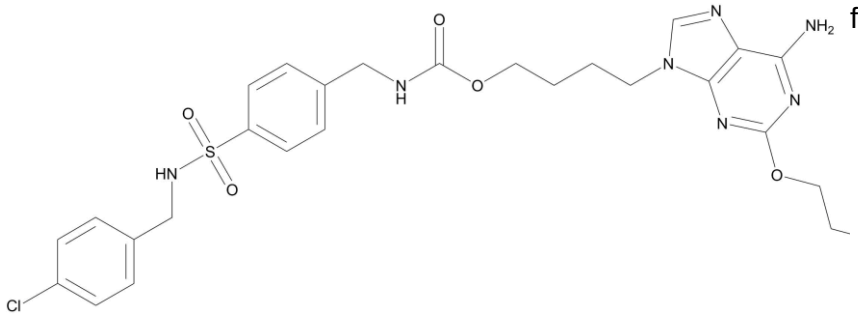
formula (CXXVII)



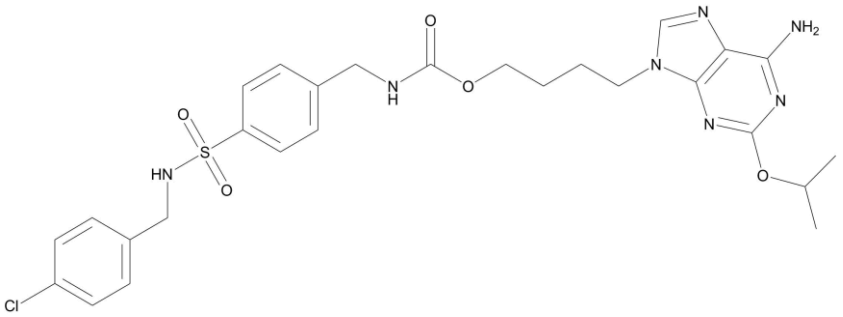
formula (CXXVIII)



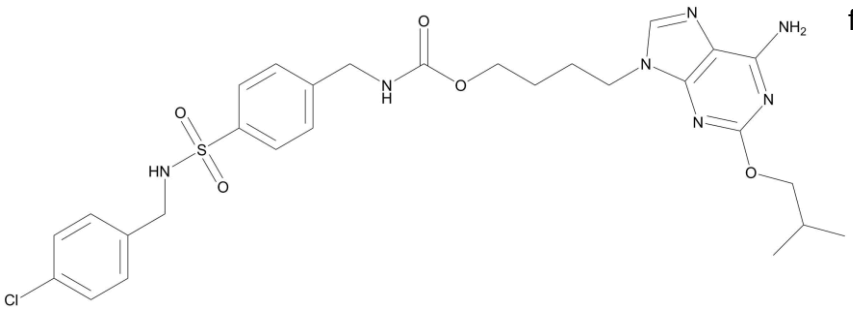
formula (CXXIX)



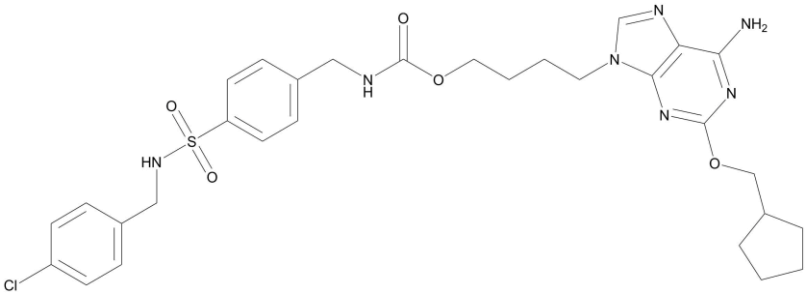
formula (CXXX)



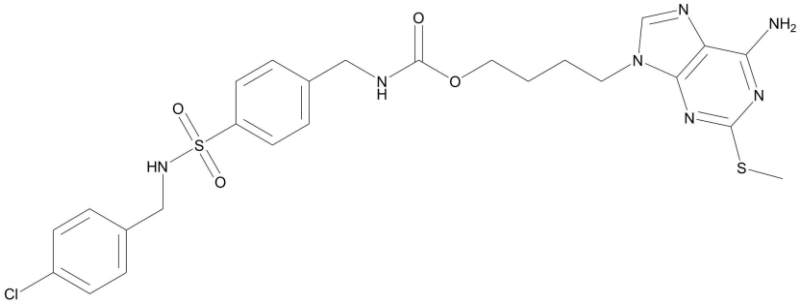
formula (CXXXI)



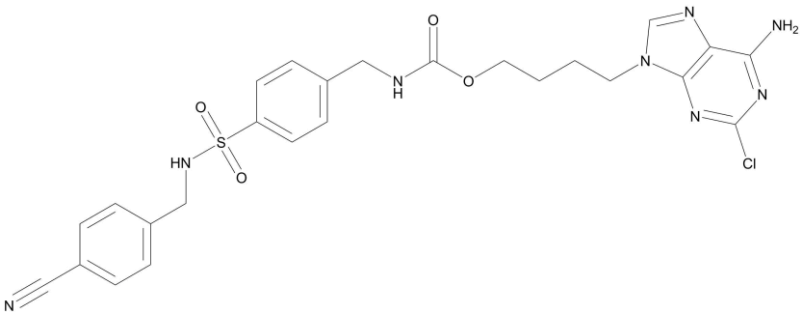
formula (CXXXII)



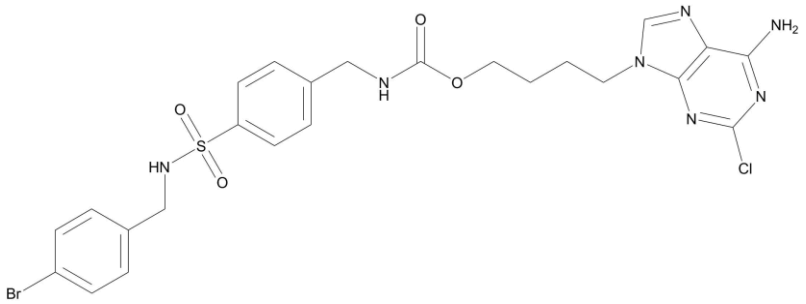
formula (CXXXIII)



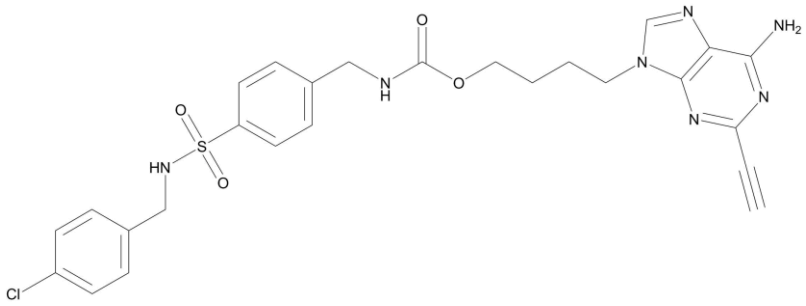
formula (CXXXIV)



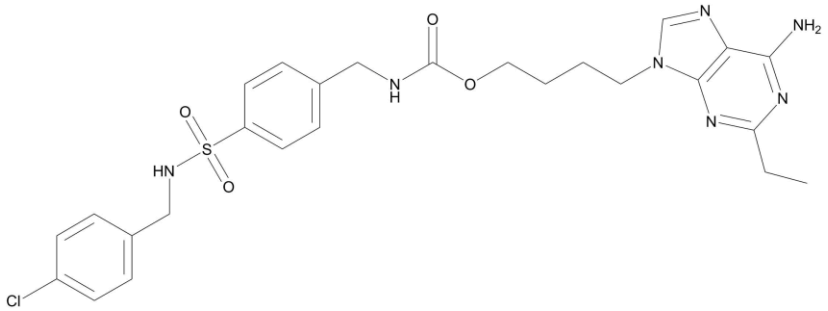
formula (CXXXV)



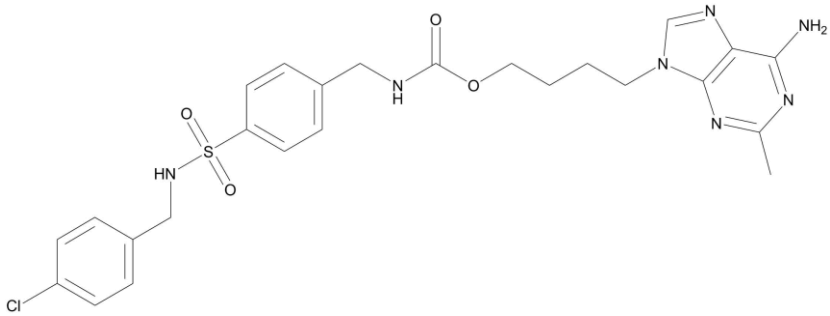
formula (CXXXVI)



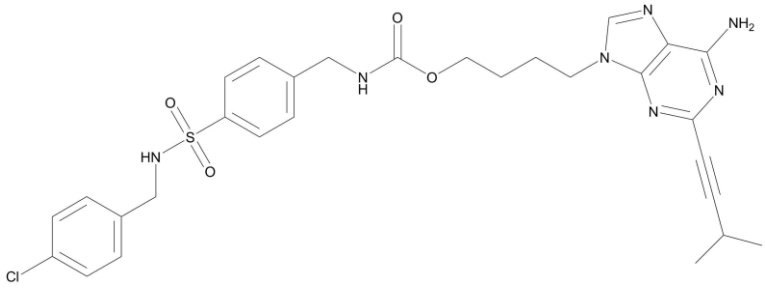
formula (CXXXVII)



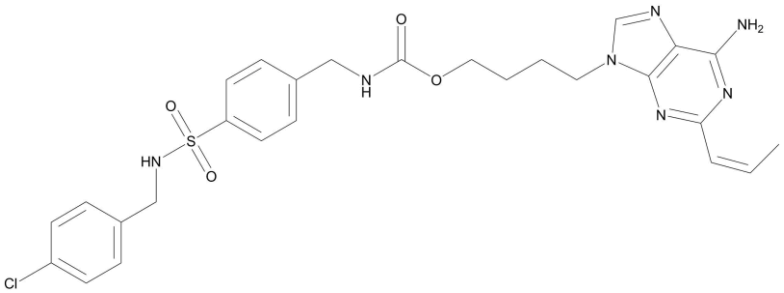
formula (CXXXVIII)



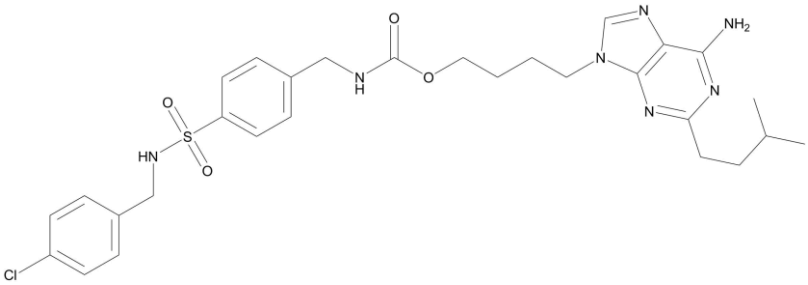
formula (CXXXIX)



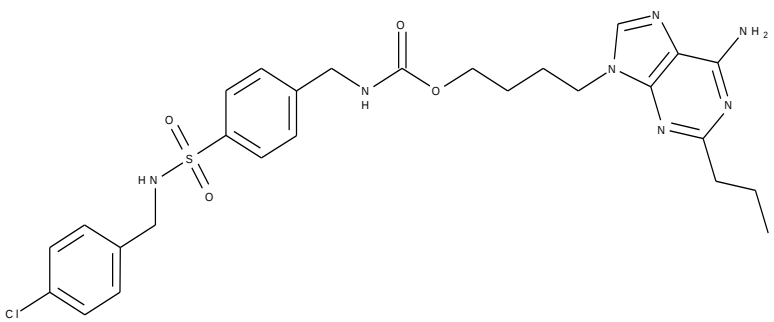
formula (CXL)



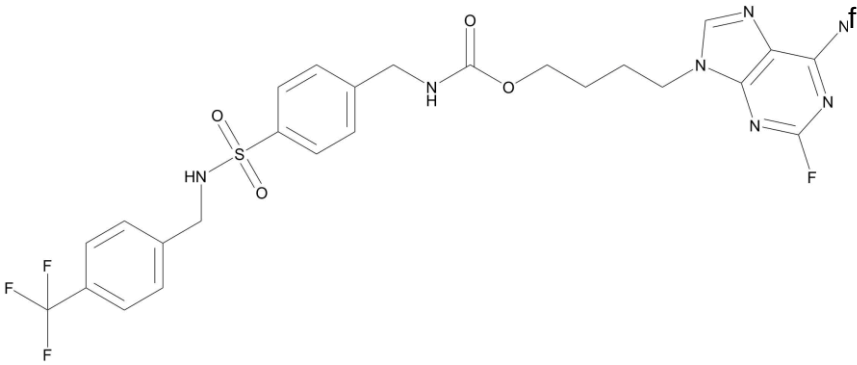
formula (CXLI)



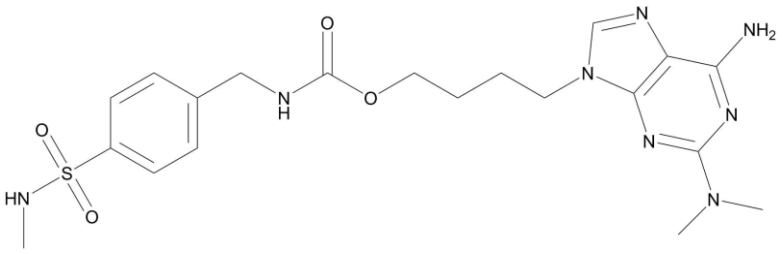
formula (CXLII)



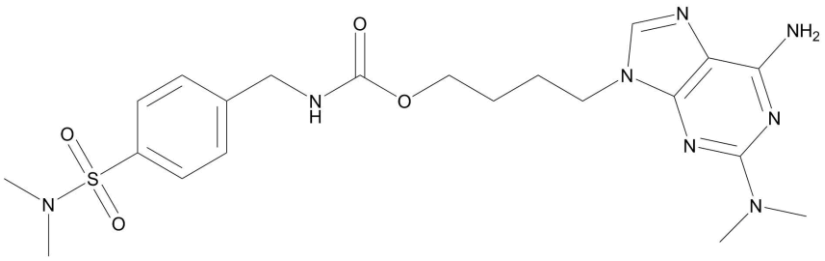
formula (CXLIII)



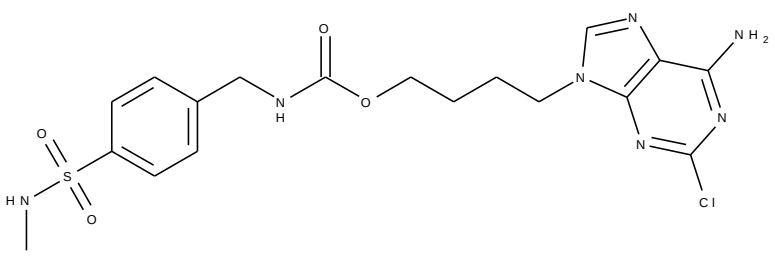
formula (CXLIV)



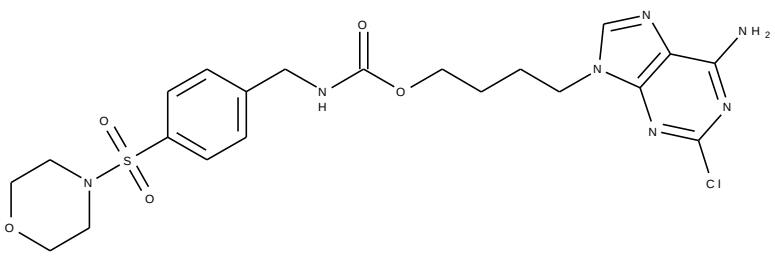
formula (CXLV)



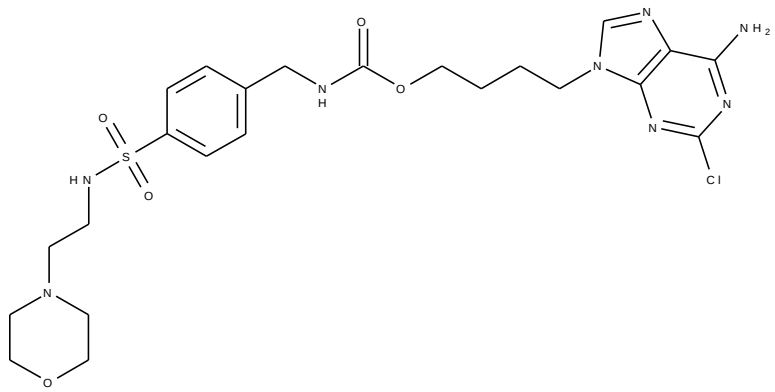
formula (CXLVI)



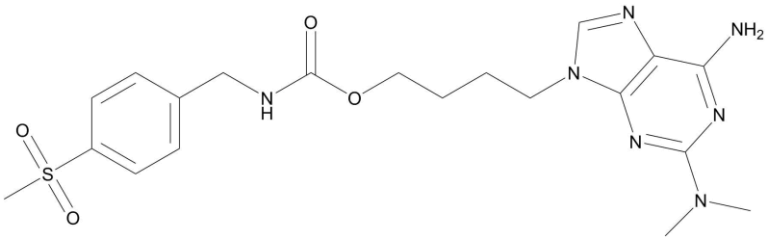
formula (CXLVI - 1)



formula (CXLVI - 2)



formula (CXLVI - 3)

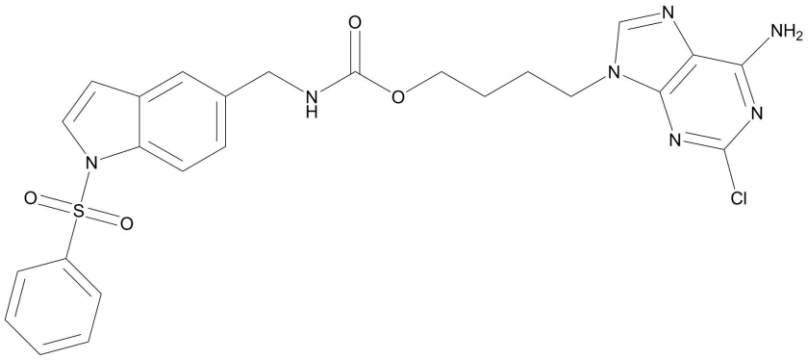


formula (CXLVII)

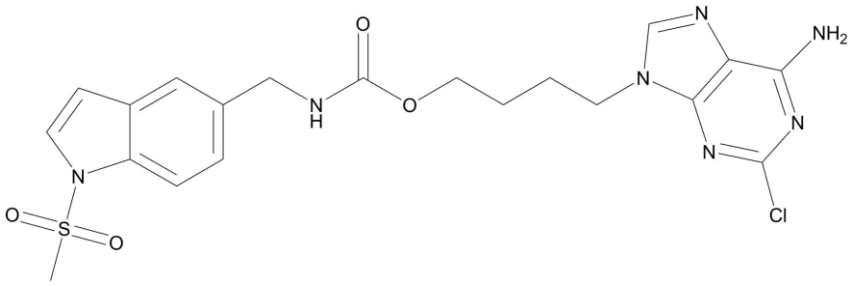
9. The compound (C) according to claim 1, or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or

stereoisomer thereof, wherein compound of formula (IV) is a compound chosen among those of formulae (CXLVIII) to (CLVII), (CLIX) to (CLXX) or (XXV) to (XXV - 13) herein below:

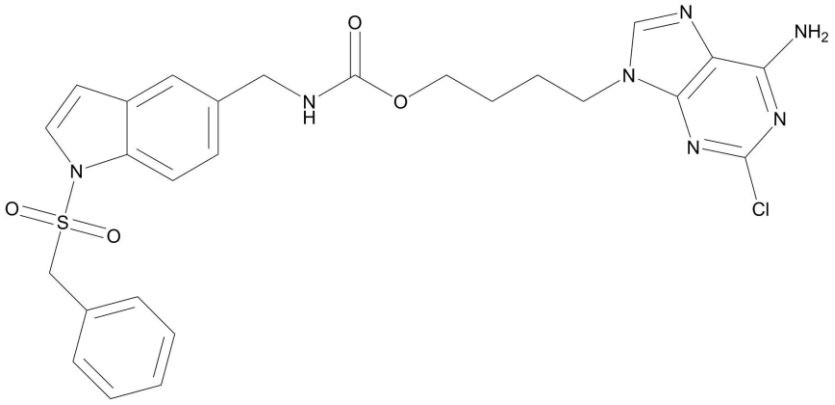
formula (CXLVIII)



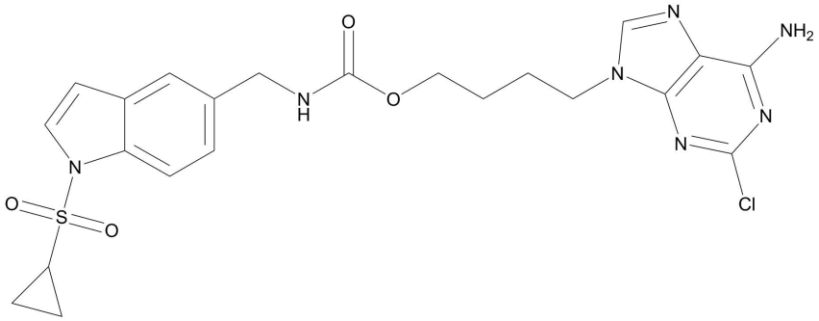
formula (CXLIX)

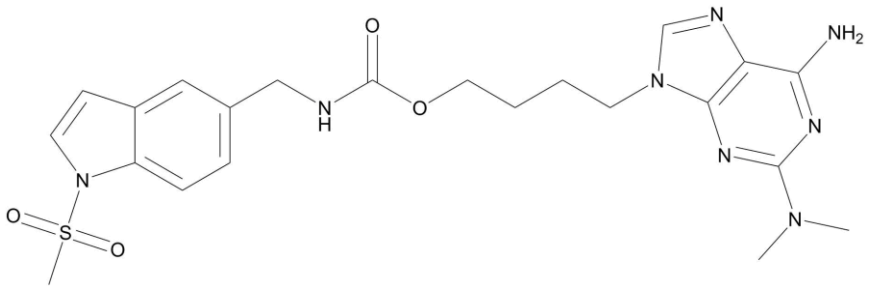


formula (CL)

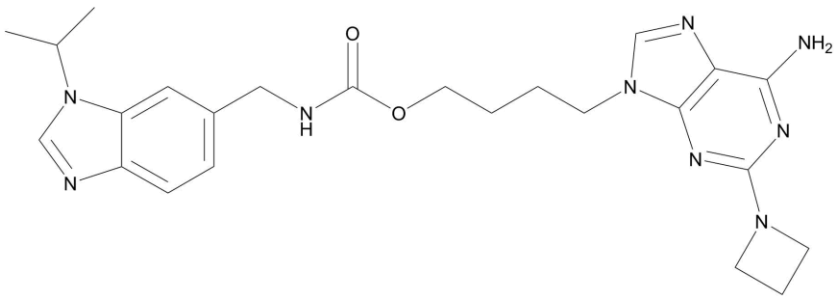


formula (CLI)

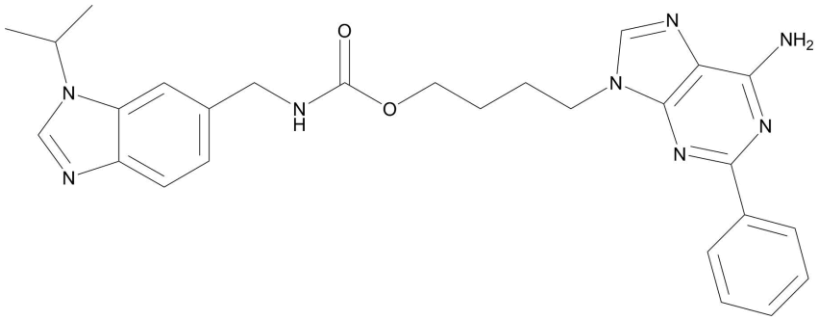




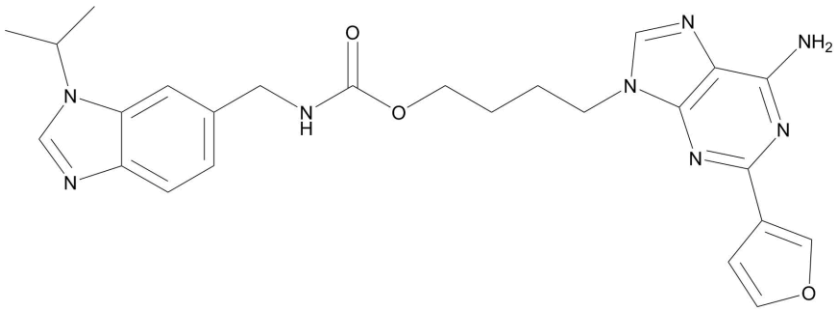
formula (CLII)



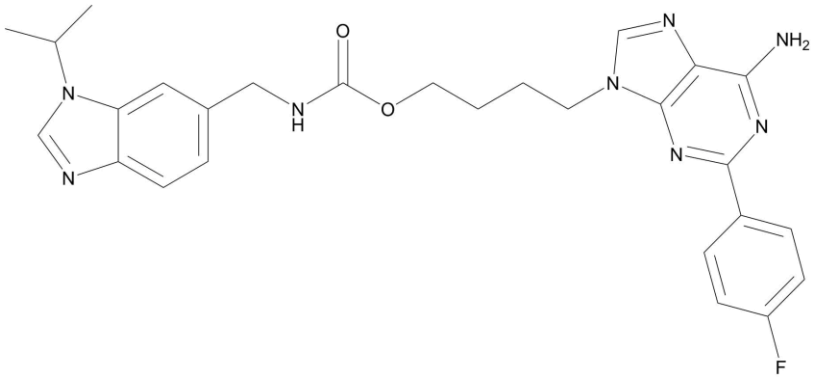
formula (CLIII)



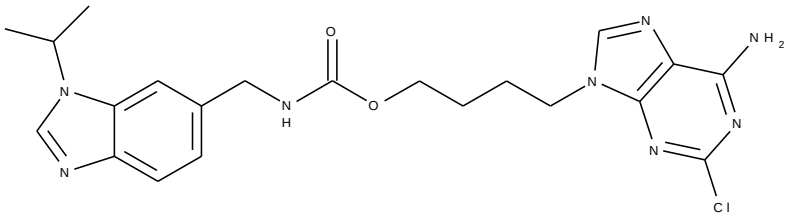
formula (CLIV)



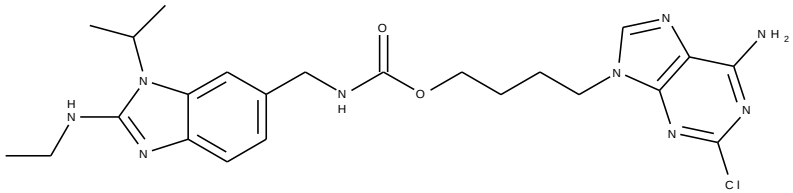
formula (CLV)



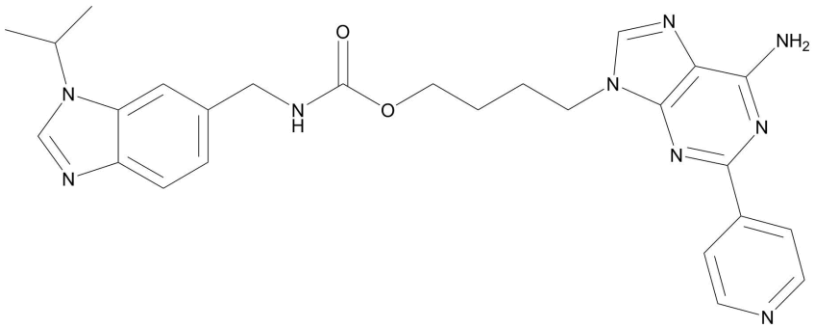
formula (CLVI)



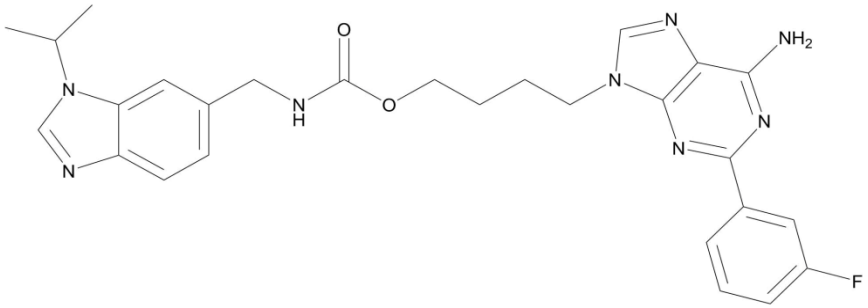
formula (CLVI - 1)



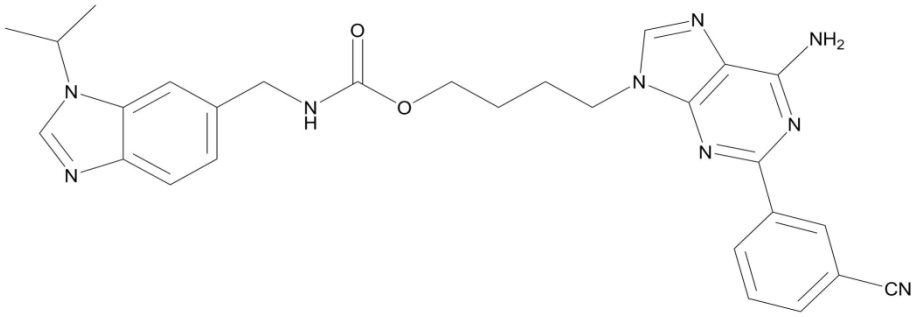
formula (CLVI - 2)



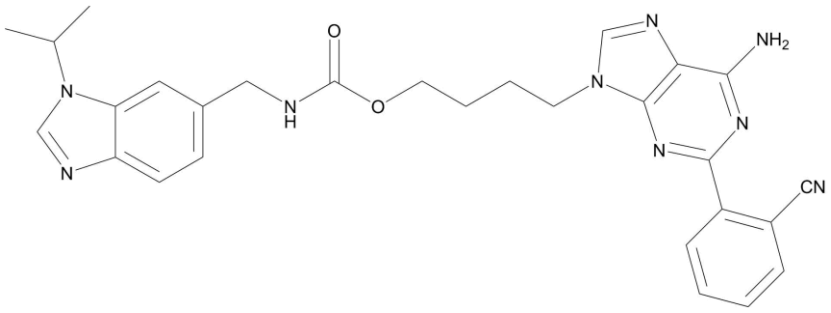
formula (CLVII)



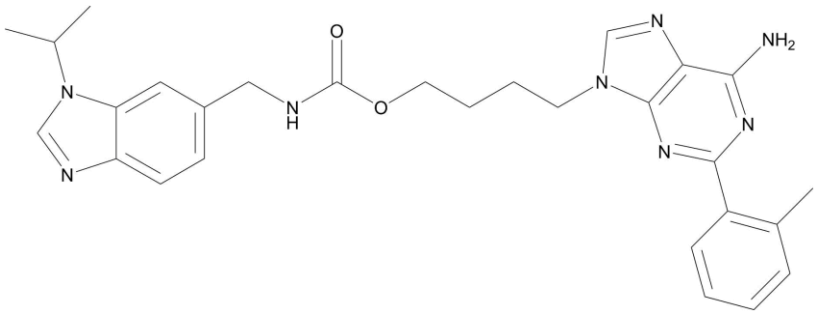
formula (CLIX)



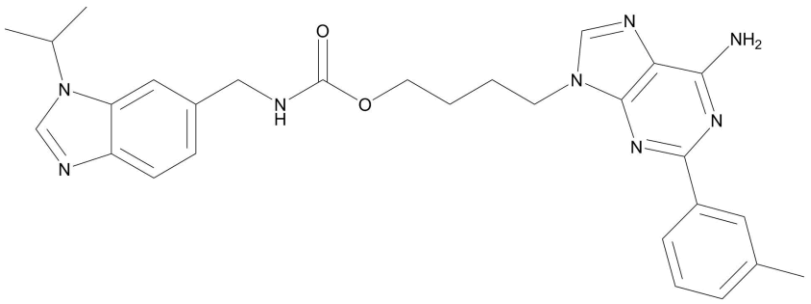
formula (CLX)



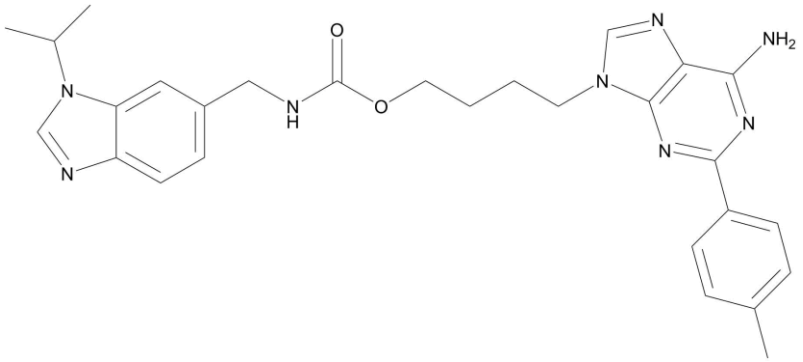
formula (CLXII)



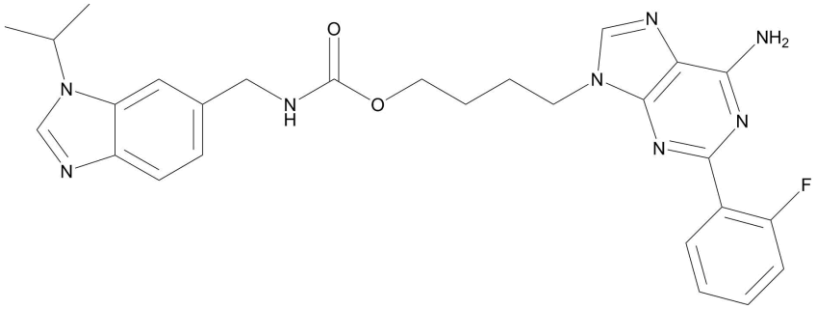
formula (CLXIII)



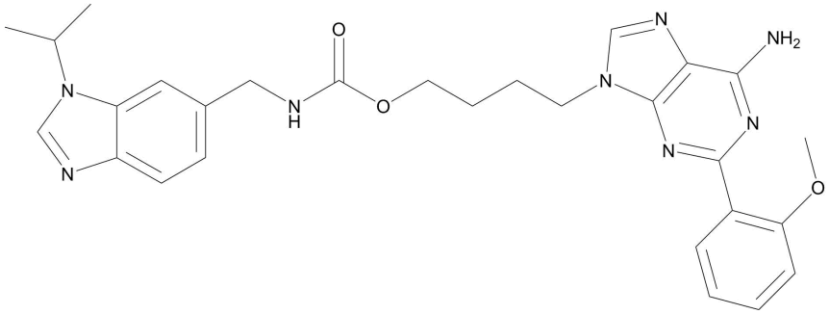
formula (CLXIV)



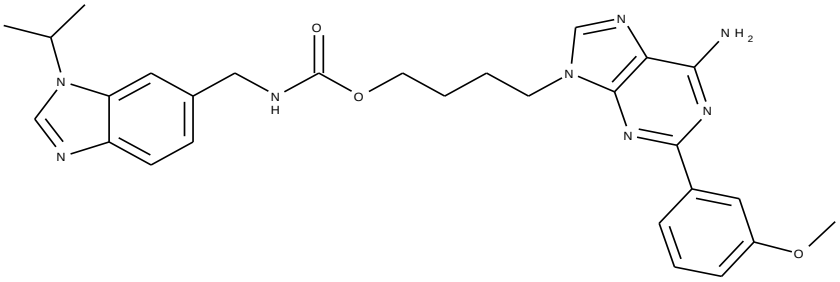
formula (CLXV)



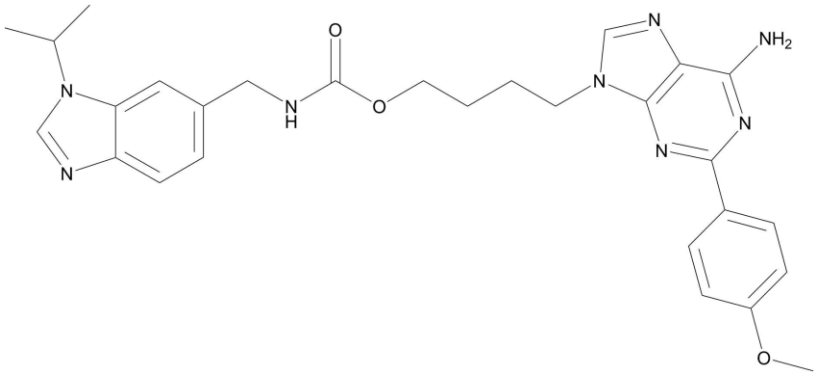
formula (CLXVI)



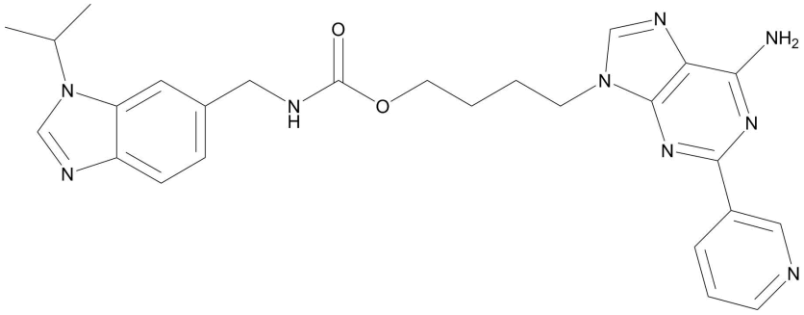
formula (CLXVII)



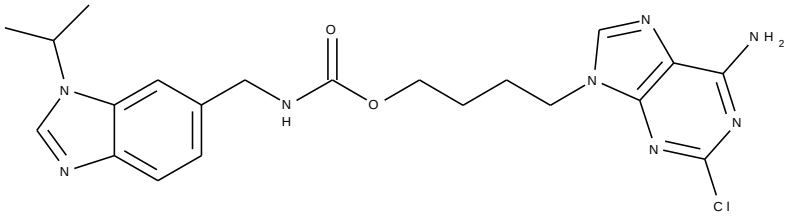
formula (CLXVIII)



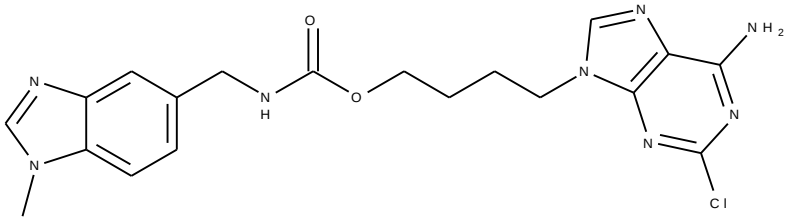
formula (CLXIX)



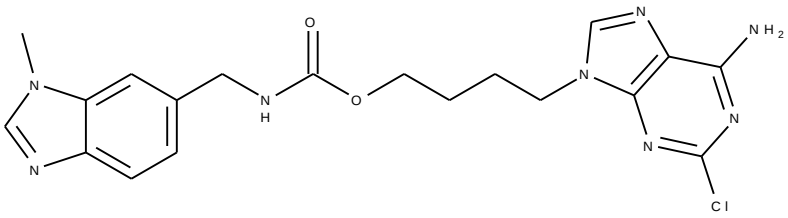
formula (CLXX)



formula (XXV)

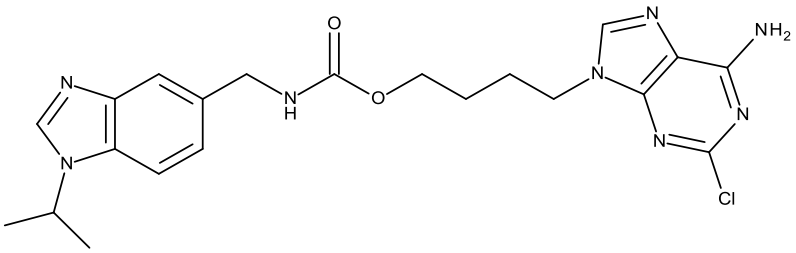


formula (XXV - 1)

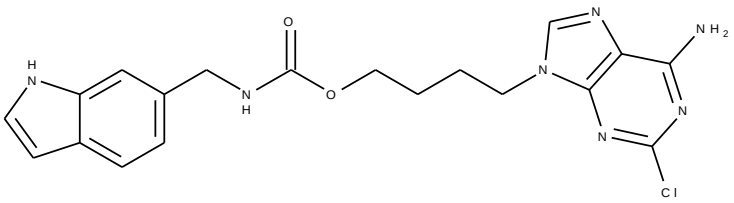


formula (XXV - 2)

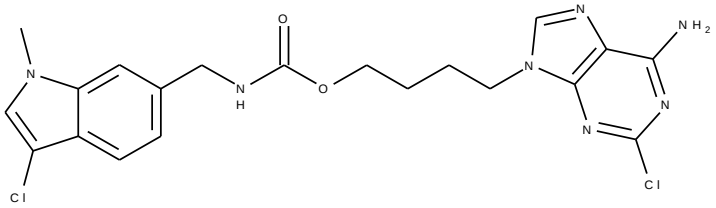
formula (XXV - 3)



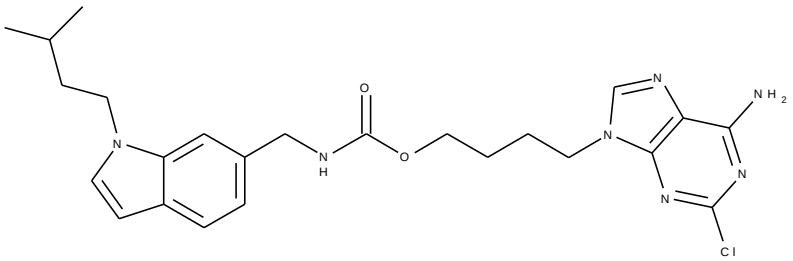
formula (XXV - 4)



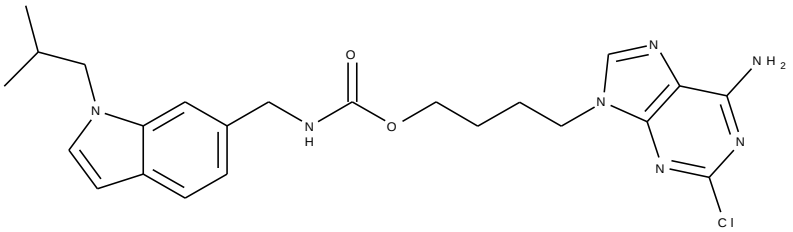
formula (XXV - 5)



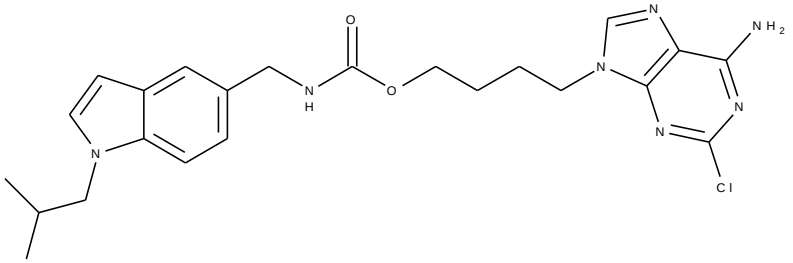
formula (XXV - 6)



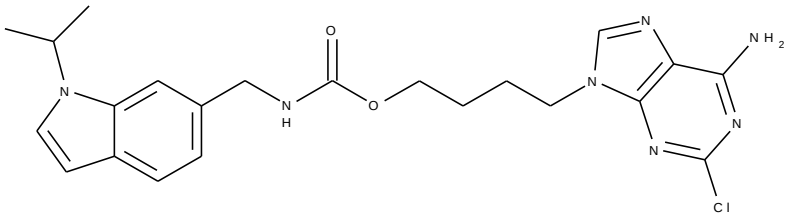
formula (XXV - 7)



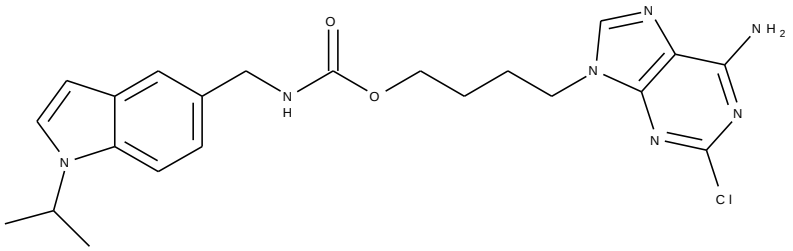
formula (XXV - 8)



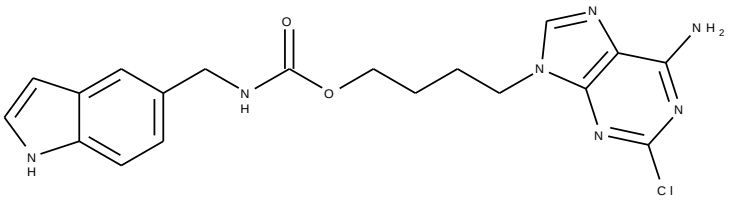
formula (XXV - 9)



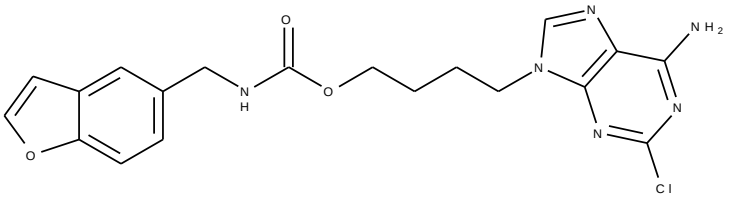
formula (XXV - 10)



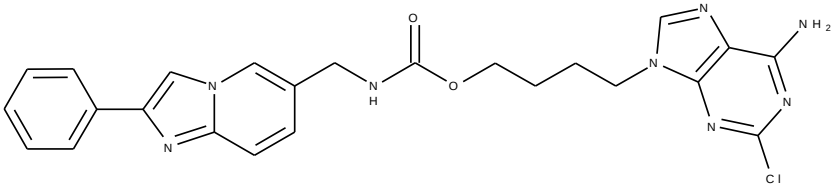
formula (XXV - 11)



formula (XXV - 12)

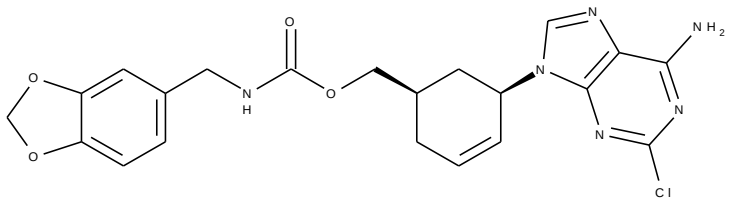


formula (XXV - 13)



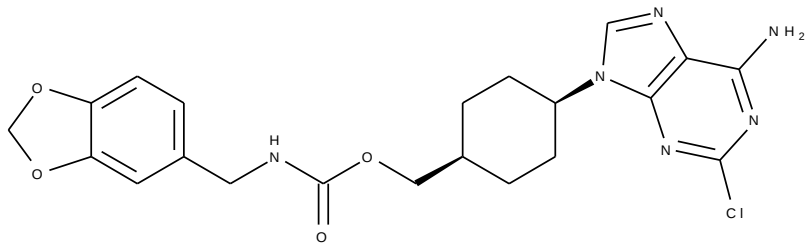
10. The compound (C) according to claim 5, or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein compound of formula (XVII) is a compound of formula (LX)

formula (LX)

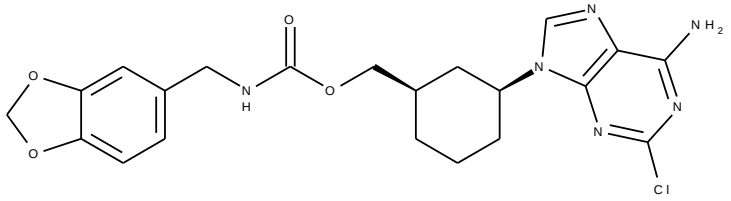


11. The compound (C) according to claim 4 or claim 6, or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein compound of formula (XIII) is chosen among those of formula (LXI) or (LXII) herein below:

formula (LXI)

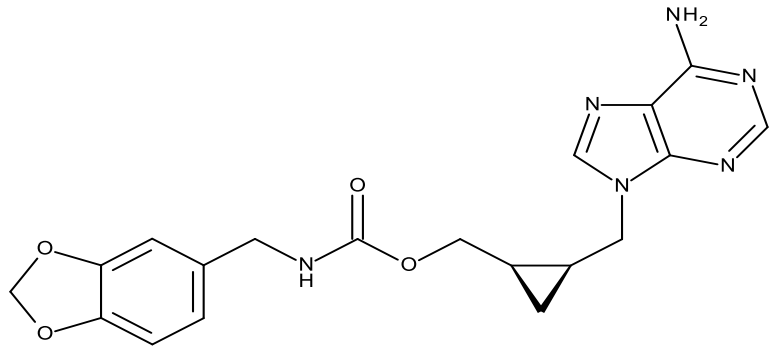


formula (LXII)

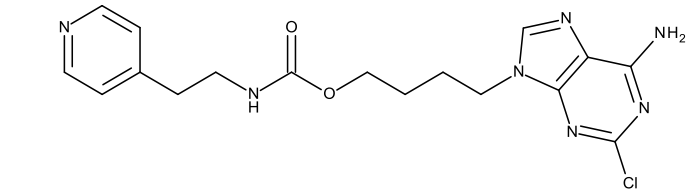


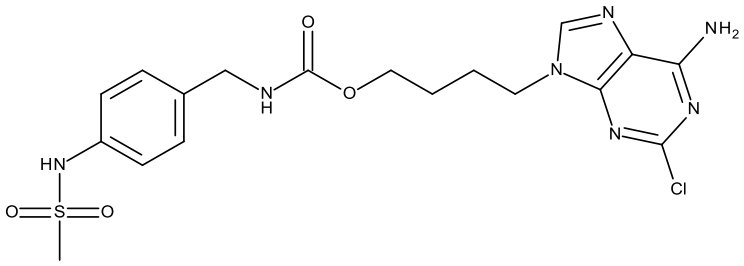
12. The compound (C) according to claim 3, or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein compound of formula (IX') is a compound according to formula (LXIIIa) herein below

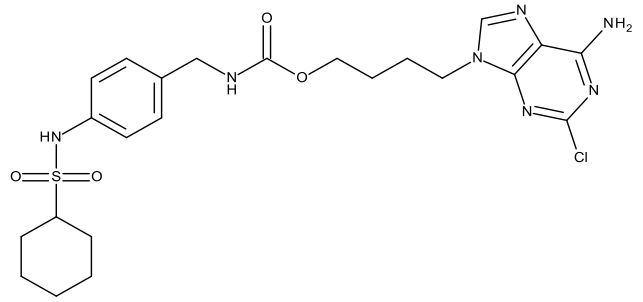
formula (LXIIIa)

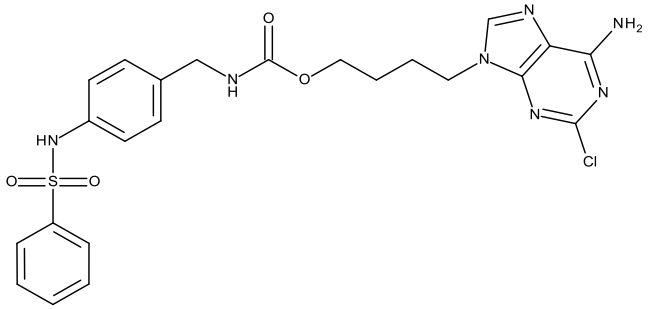


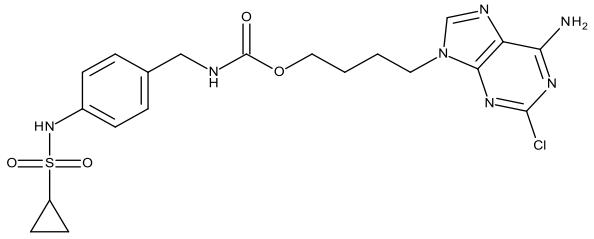
13. A compound (C) or the N-oxide, pharmaceutically acceptable salt, pharmaceutically acceptable solvate, or stereoisomer thereof, wherein compound (C) is chosen among those of following formulae herein below:

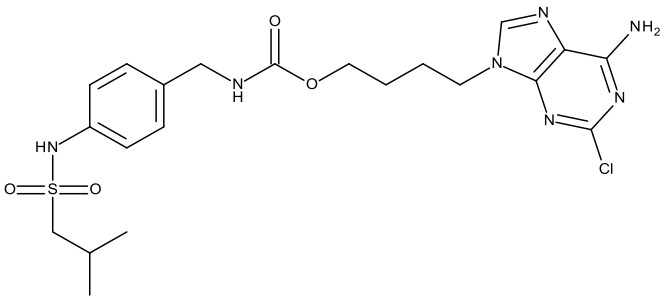


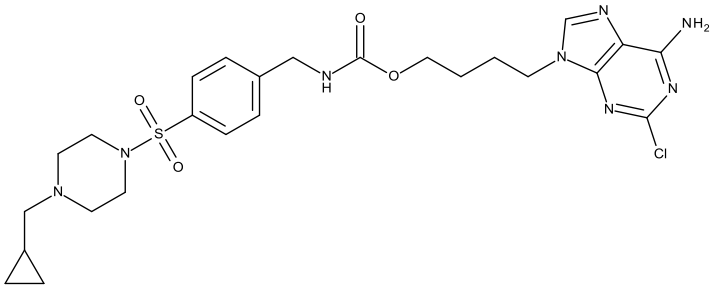


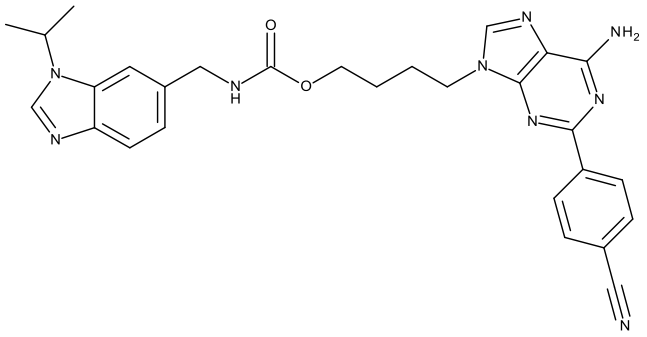




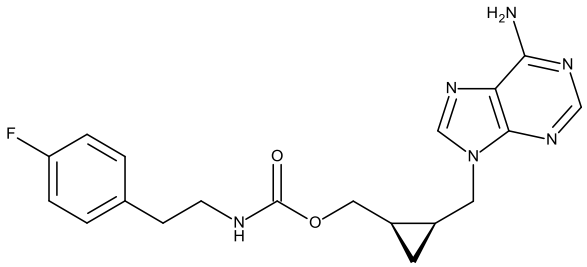


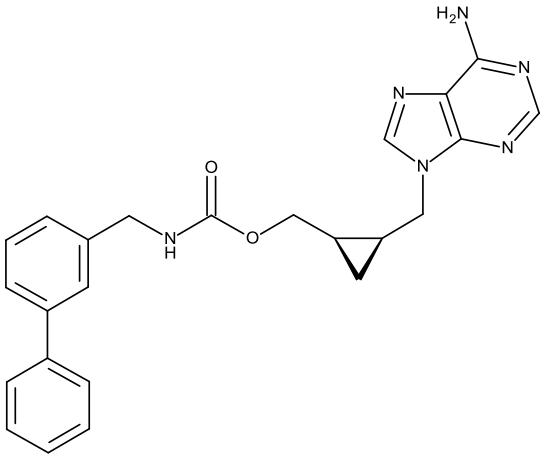


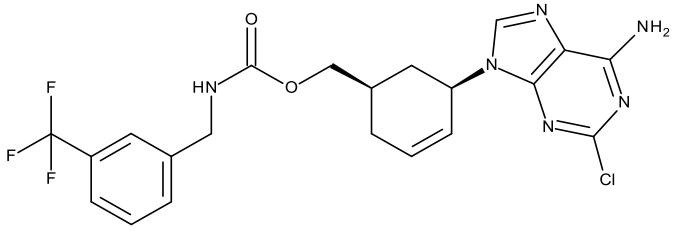




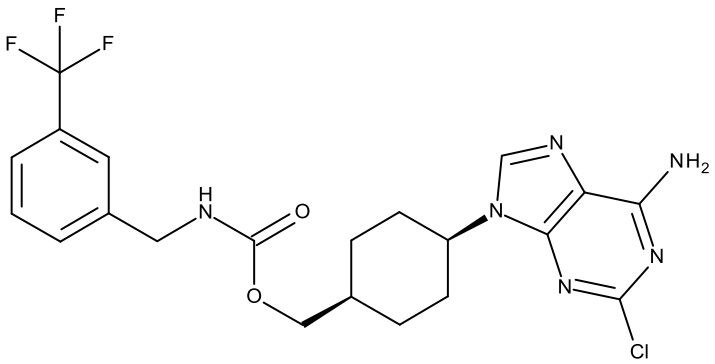
5







5



14. A pharmaceutical composition comprising a carrier, and as active ingredient the compound (C), as defined according to any one of claims 1 to 13

15. A compound as defined according to any one of claims 1 to 13, for use in the treatment of a disease selected from cancer, inflammatory disorders, cardiovascular diseases, viral induced diseases, circulatory diseases and fibro-proliferative diseases.

16. A compound (C), as defined according to any one of claims 1 to 13, for use as a medicament.