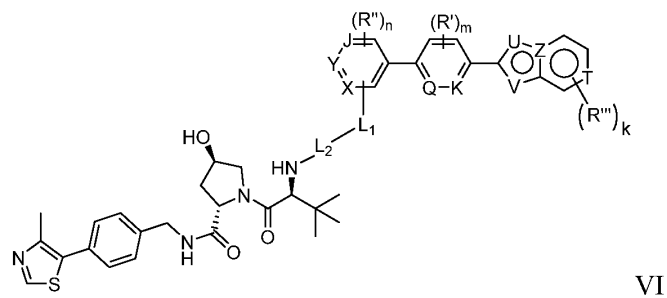
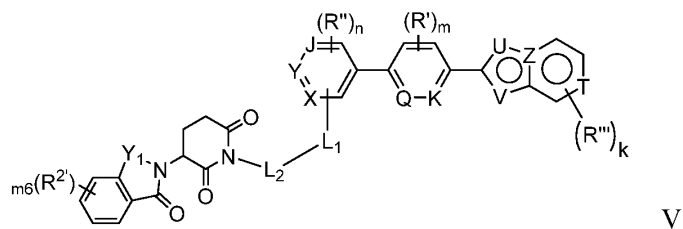
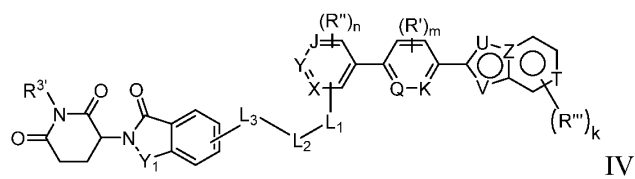
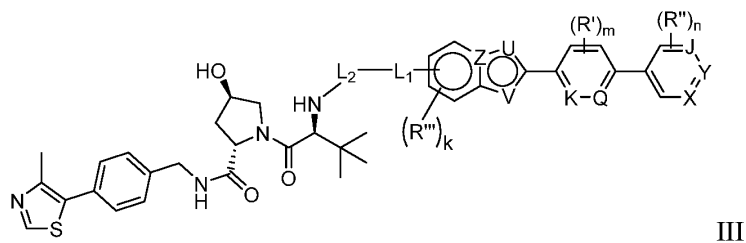
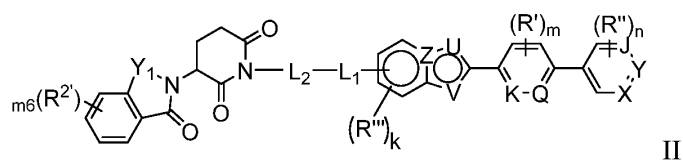
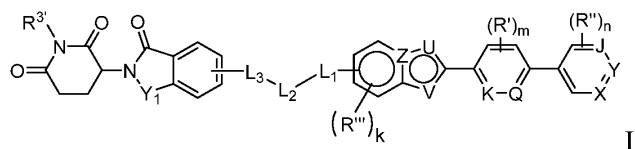


CLAIMS

WHAT IS CLAIMED IS:

1. A compound of any one of Formula I to Formula VI,



or, a pharmaceutical acceptable salt, an enantiomer, a non-enantiomer, a tautomer, a racemate, a solvate, a metabolic precursor, a prodrug thereof;

wherein,

L_1 is a bond, -NR-, -O-, or -S-, wherein R is hydrogen, optionally substituted acyl, optionally substituted alkyl or a nitrogen protecting group;

L_2 is a substituted or unsubstituted C_{1-50} hydrocarbon chain;

Z is C or N; U is O, S or CH;

K is CH or N; Q is CH or N; where K and Q are not N at the same time;

each occurrence of R''' is independently selected from the group consisting of H, OH, NH_2 , C_{1-6} alkyl, C_{1-6} alkylamino, C_{1-6} alkoxy and halogen; k is 0, 1, 2 or 3;

each occurrence of R' is independently selected from the group consisting of H, halogen, OH, C_{1-6} alkyl, C_{1-6} haloalkyl and C_{1-6} alkoxy; m is 0, 1, 2, 3 or 4;

each occurrence of R'' is independently selected from the group consisting of H, halo, OH, NH_2 , C_{1-6} alkyl, C_{1-6} alkoxy, C_{1-6} haloalkyl, C_{1-6} alkylamino, C_{3-6} cycloalkylamino, C_{3-6} cycloalkyl and C_{3-6} heterocycloalkyl; n is 0, 1 or 2;

J is CR^6 or N; X is CR^6 or N; Y is CR^6 or N; where at least one of J, X and Y is N, but J and Y are not N at the same time, X and Y are not N at the same time;

R^6 is independently selected from the group consisting of H, NH_2 , C_{1-6} alkyl and C_{1-6} alkoxy, wherein NH_2 , C_{1-6} alkyl or C_{1-6} alkoxy is optionally substituted by 1 to 3 of C_{1-3} alkyl, C_{3-6} cycloalkyl and/or halo;

in Formula I, L_3 is a bond, -NR-, -O-, or -S-, wherein R is hydrogen, optionally substituted acyl, optionally substituted alkyl or a nitrogen protecting group; $R^{3'}$ is H or C_{1-6} alkyl; Y_1 is

CH_2 or ; V is N, where Z and U are not heteratoms at the same time;

in Formula II, each occurrence of $R^{2'}$ is independently selected from the group consisting of H, OH, C_{1-6} alkyl, C_{1-6} alkoxy, C_{1-6} alkylamino and NH_2 ; m_6 is 0, 1, 2, 3 or 4; Y_1 is CH_2 or

; V is N, where Z and U are not heteratoms at the same time;

in Formula III, V is N, where Z and U are not heteratoms at the same time;

in Formula IV, L_3 is a bond, $-NR-$, $-O-$, or $-S-$, wherein R is hydrogen, optionally substituted acyl, optionally substituted alkyl or a nitrogen protecting group; $R^{3'}$ is H or C_{1-6} alkyl; Y_1 is

CH_2 or ; V is N or NH; T is CH or N; where up to two of U, Z, V and T contain heteroatoms;

in Formula V, each occurrence of $R^{2'}$ is independently selected from the group consisting of H, OH, C_{1-6} alkyl, C_{1-6} alkoxy, C_{1-6} alkylamino and NH_2 ; m_6 is 0, 1, 2, 3 or 4; Y_1 is CH_2 or

; V is N or NH; T is CH or N; where up to two of U, Z, V and T contain heteroatoms;

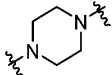
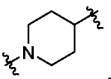
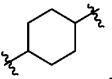
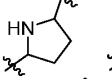
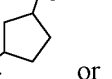
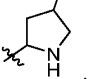
in Formula VI, V is N; T is CH or N; where up to two of U, Z, V and T contain heteroatoms.

2. The compound of claim 1, wherein L_2 is an optionally substituted C_{1-45} hydrocarbon chain, optionally wherein one or more chain atoms of the hydrocarbon chain are independently replaced with $-C(=O)-$, $-O-$, $-NR^{al}-$, $-S-$ or a cyclic moiety, wherein R^{al} is independently hydrogen, substituted or unsubstituted C_{1-6} alkyl or a nitrogen protecting group; preferably, L_2 is a substituted or unsubstituted C_{5-40} hydrocarbon chain; preferably, L_2 is a substituted or unsubstituted C_{1-30} , C_{1-24} , or C_{1-20} hydrocarbon chain, optionally wherein one or more chain atoms of the hydrocarbon chain are independently replaced with $-C(=O)-$, $-O-$, $-NR^{al}-$, $-S-$ or a cyclic moiety, wherein R^{al} is independently hydrogen, substituted or unsubstituted C_{1-6} alkyl or a nitrogen protecting group; preferably, L_2 is an unsubstituted C_{1-26} , C_{5-26} , C_{5-20} , C_{5-15} , C_{15-20} , or C_{20-25} hydrocarbon chain, wherein one or more chain atoms of the hydrocarbon chain are independently replaced with $-C(=O)-$, $-O-$ or $-NR^{al}-$, wherein R^{al} is independently hydrogen, substituted or unsubstituted C_{1-6} alkyl or a nitrogen protecting group.

3. The compound of claim 1, wherein L_2 is an optionally substituted C_{1-30} hydrocarbon chain, wherein one or more chain atoms of the hydrocarbon chain are independently replaced with $-O-$ or $-NR^{al}-$, wherein R^{al} is independently hydrogen, substituted or unsubstituted C_{1-6} alkyl or a nitrogen protecting group;

preferably, at least one chain atom of the hydrocarbon chain of L_2 is independently replaced with $-C(=O)-$, $-O-$, $-S-$, $-NR^{al}-$, $-N=$ or $=N-$, wherein R^{al} is independently hydrogen, substituted or unsubstituted C_{1-6} alkyl or a nitrogen protecting group; preferably replaced with $-O-$.

4. The compound of claim 1, wherein L_2 is selected from the group consisting of substituted or unsubstituted carbocyclylene, substituted or unsubstituted heterocyclylene, substituted or unsubstituted arylene, substituted or unsubstituted heteroarylene, or substituted or unsubstituted heteroalkylene, and combinations thereof; preferably, L_2 is selected from the group consisting of substituted and unsubstituted alkylene, substituted and unsubstituted alkenylene, substituted and unsubstituted alkynylene, substituted and unsubstituted heteroalkylene, substituted and unsubstituted heteroalkenylene, substituted and unsubstituted heteroalkynylene, substituted and unsubstituted heterocyclylene, substituted and unsubstituted carbocyclylene, substituted and unsubstituted arylene, substituted and unsubstituted heteroarylene, and combinations thereof.

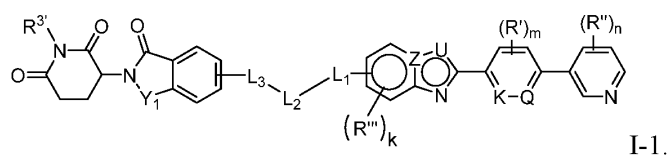
5. The compound of claim 4, wherein the carbocyclylene or the heterocyclylene is , , , , , or .

6. The compound of claim 4, wherein L_2 comprises at least one instance selected from the group consisting of substituted or unsubstituted C_{1-6} alkylene, substituted or unsubstituted C_{2-6} alkenylene, substituted or unsubstituted C_{2-6} alkynylene, substituted or unsubstituted hetero C_{1-6} alkylene, substituted or unsubstituted hetero C_{2-6} alkenylene, substituted or unsubstituted hetero C_{2-6} alkynylene, substituted or unsubstituted C_{3-6} carbocyclylene, substituted or unsubstituted 3-6 membered heterocyclylene, substituted or unsubstituted phenylene, and substituted or unsubstituted 5- to 6-membered heteroarylene.

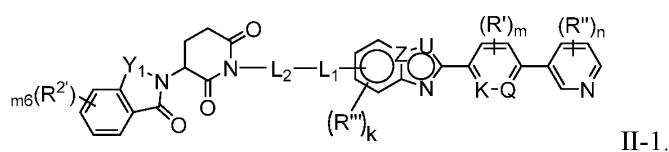
7. The compound of claim 4, wherein L_2 comprises at least one instance selected from the group consisting of substituted or unsubstituted methylene, ethylene, n-propylene, n-butylene, n-pentylene, n-hexylene, $-(CH_2)_2-O(CH_2)_2-$, $-OCH_2-$, $-CH_2O-$, $-O(CH_2)_2-$, $-(CH_2)_2O-$, $-O(CH_2)_3-$, $-(CH_2)_3O-$, $-O(CH_2)_4-$, $-(CH_2)_4O-$, $-O(CH_2)_5-$, $-(CH_2)_5O-$, $-O(CH_2)_6-$, $-O(CH_2)_6O-$, $-NH-C(=O)-$ and $-C(=O)NH-$.
8. The compound of claim 4, wherein at least one chain atom of the hydrocarbon chain of L_2 is independently replaced with a 6-membered heterocyclyl group with 1-3 ring heteroatoms selected from the group consisting of nitrogen and oxygen;
preferably, at least one chain atom of the hydrocarbon chain of L_2 is independently replaced with piperidine, piperazine or morpholine;
preferably, at least one chain atom of the hydrocarbon chain of L_2 is independently replaced with an optionally substituted phenyl group.
9. The compound of claim 4, wherein L_2 is an unsubstituted hydrocarbon chain, optionally wherein one or more chain atoms of the hydrocarbon chain are independently replaced with $-NR^{a1}-$, and each instance of R^{a1} is independently hydrogen, substituted or unsubstituted C_{1-6} alkyl or a nitrogen protecting group, or optionally two instances of R^{a1} are taken together with their intervening atoms to form a substituted or unsubstituted heterocyclic or substituted or unsubstituted heteroaryl ring.
10. The compound of claim 9, wherein at least one instance of R^{a1} is hydrogen, substituted or unsubstituted C_{1-6} alkyl (e.g., substituted or unsubstituted methyl or ethyl), a nitrogen protecting group (e.g., benzyl, t-butyl carbonate, benzyl carbamate, 9-fluorenylmethyl carbonate, trifluoroacetyl, triphenylmethyl, acetyl or p-toluenesulfonamide).

11. The compound of claim 1, wherein L_2 is $\frac{1}{2} \left(\text{O} \text{---} \text{CH}_2 \right)_g$, wherein g is 1, 2, 3, 4, 5, or 6.

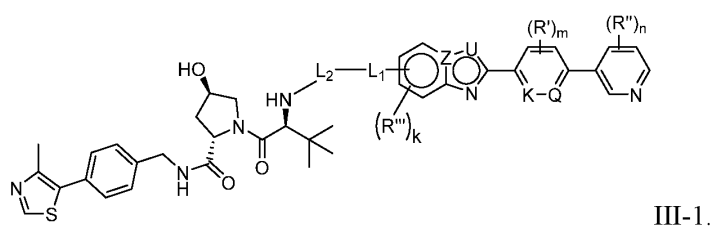
14. The compound of claim 1, wherein the compound of Formula I is of Formula I-1;



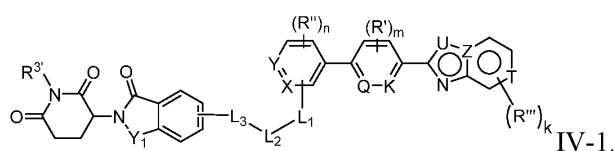
15. The compound of claim 1, wherein the compound of Formula II is of Formula II-1;



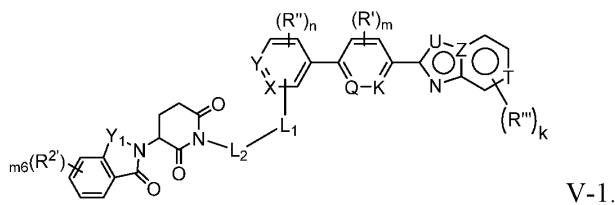
16. The compound of claim 1, wherein the compound of Formula III is of Formula III-1;



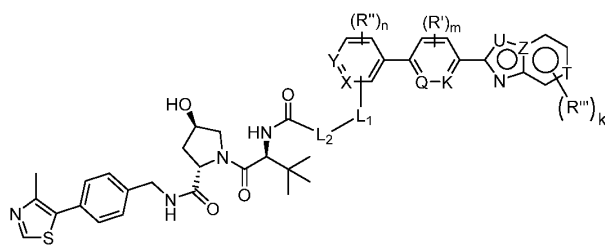
17. The compound of claim 1, wherein the compound of Formula IV is of Formula IV-1;



18. The compound of claim 1, wherein the compound of Formula V is of Formula V-1;

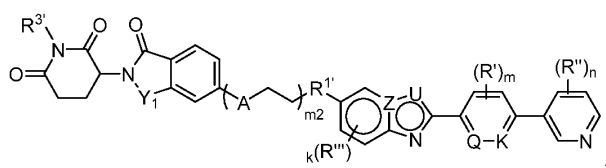


19. The compound of claim 1, wherein the compound of Formula VI is of Formula VI-1;

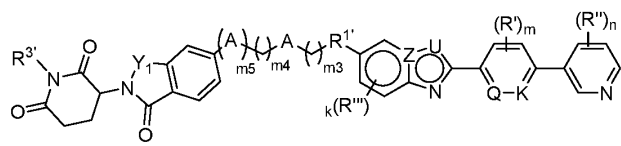


VI-1.

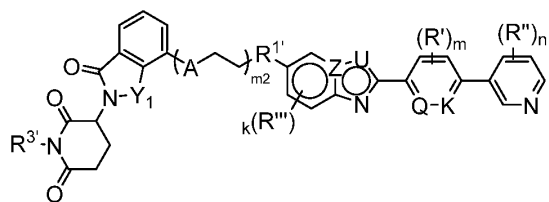
20. The compound of claim 14, wherein the compound of Formula I-1 is of Formula 1, 5, 6, 8, 10 or 13;



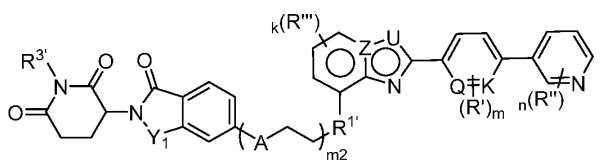
Formula 1



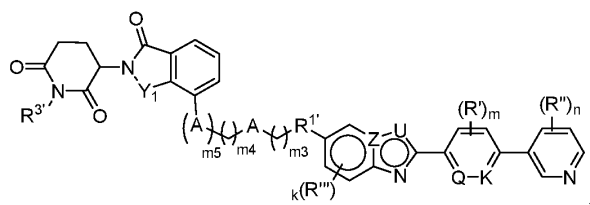
Formula 5



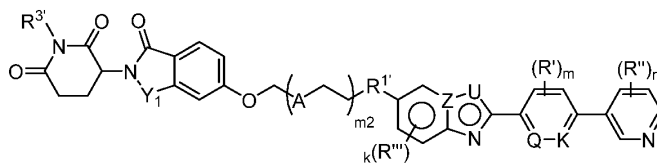
Formula 6



Formula 8

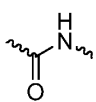
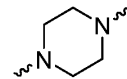
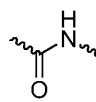


Formula 10

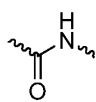
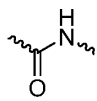


Formula 13.

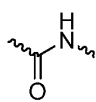
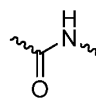
21. The compound of claim 20, wherein the compound is of Formula 1, and wherein R' is H, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; and/or, R'' is H, halo, OH, NH₂, C₁₋₃ alkoxy, C₁₋₃ alkylamino, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino and C₃₋₅ heterocycloalkyl; and/or, R''' is H, OH or

halogen; and/or, R^{1'} is O, NH,  or ; and/or, A is O, NH,  or ; and/or, m₂ is 2, 3, 4 or 6; and/or, R^{3'} is H or C₁₋₃ alkyl.

22. The compound of claim 20, wherein the compound is of Formula 5, and wherein R^{3'} is H

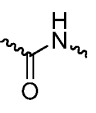
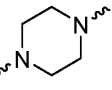
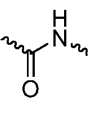
or C₁₋₃ alkyl; and/or, A is O, NH or ; and/or, m₄ is 0, 1, 2, or 3; and/or, m₅ is 0, 1, 2 or 3; and/or, m₃ is 1, 2, 3, 4, 5 or 6; and/or, R^{1'} is O, NH or ; and/or, R''' is H, OH, C₁₋₃ alkyl, C₁₋₃ alkoxy or halogen; and/or, R' is H, halo, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; and/or, m is 0, 1, 2 or 3; and/or, R'' is H, halo, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkoxy, C₁₋₃ haloalkyl, C₁₋₃ alkylamino, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino or C₃₋₅ heterocycloalkyl.

23. The compound of claim 20, wherein the compound is of Formula 6, and wherein R^{3'} is H

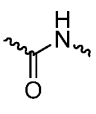
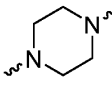
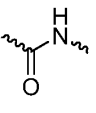
or C₁₋₃ alkyl; and/or, A is O, NH or ; and/or, m₂ is 1, 2, 3, 4, 5, 6 or 7; and/or, R^{1'} is O, NH or ; and/or, R''' is H, OH, C₁₋₃ alkyl, C₁₋₃ alkoxy or halogen; and/or, R' is H, halo, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; and/or, m is 0, 1, 2 or 3; and/or, R'' is H,

halo, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkoxy, C₁₋₃ haloalkyl, C₁₋₃ alkylamino, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino or C₃₋₅ heterocycloalkyl; and/or, n is 0 or 1.

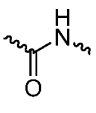
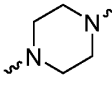
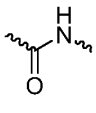
24. The compound of claim 20, wherein the compound is of Formula 8, and wherein R^{3'} is H

or C₁₋₃ alkyl; and/or, A is O, NH,  or ; and/or, m₂ is 1, 2, 3 or 4; and/or, R^{1'} is O, NH,  or ; and/or, R^{'''} is H, OH, C₁₋₃ alkyl, C₁₋₃ alkoxy or halogen; and/or, k is 0 or 1; and/or, R' is H, halogen, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; and/or, m is 0, 1 or 2; and/or, R'' is H, halo, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkoxy, C₁₋₃ haloalkyl, C₁₋₃ alkylamino, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino or C₃₋₅ heterocycloalkyl; and/or, n is 0, 1 or 2.

25. The compound of claim 20, wherein the compound is of Formula 10, and wherein R^{3'} is

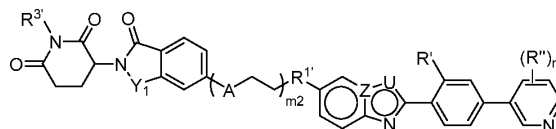
H or C₁₋₃ alkyl; and/or, A is O, NH,  or ; and/or, m₅ is 0 or 1; and/or, m₄ is 0 or 1; and/or, m₃ is 1, 2, 3, 4 or 5; and/or, R^{1'} is O, NH,  or ; and/or, R^{'''} is H, OH, C₁₋₃ alkyl, C₁₋₃ alkoxy or halogen; and/or, k is 0 or 1; and/or, R' is H, halogen, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; and/or, m is 0 or 1; and/or, R'' is H, halo, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkoxy, C₁₋₃ haloalkyl, C₁₋₃ alkylamino, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino or C₃₋₅ heterocycloalkyl; and/or, n is 0 or 1.

26. The compound of claim 20, wherein the compound is of Formula 13, and wherein R^{3'} is

H or C₁₋₃ alkyl; and/or, A is O, NH,  or ; and/or, m₂ is 1, 2, 3 or 4; and/or, R^{1'} is O, NH,  or ; and/or, R^{'''} is H, OH, C₁₋₃ alkyl, C₁₋₃ alkoxy or halogen; and/or, R' is H, halogen, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; and/or, m is 0,

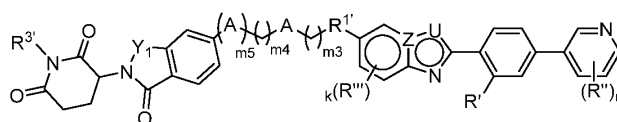
1, 2 or 3; and/or, R'' is H, halo, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkoxy, C₁₋₃ haloalkyl, C₁₋₃ alkylamino, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino or C₃₋₅ heterocycloalkyl.

27. The compound of claim 20, wherein the compound of Formual 1 is of Formula 1-1;



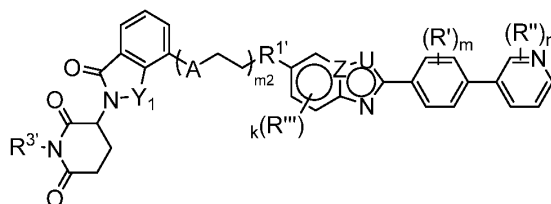
Formula 1-1.

28. The compound of claim 20, wherein the compound of Formual 5 is of Formula 5-1;

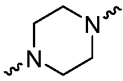


Formula 5-1.

29. The compound of claim 20, wherein the compound of Formual 6 is of Formula 6-1;



Formula 6-1.

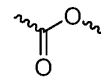
30. The compound of claim 27, wherein R^{3'} is H or C₁₋₃ alkyl; A is O, NH,  or



; m₂ is 1, 2, 3, 4, 5, 6 and 7; R^{1'} is O, NH,

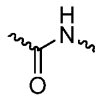
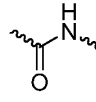
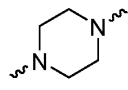


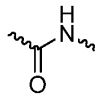
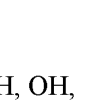
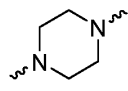
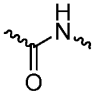
or



; R' is H, C₁₋₃

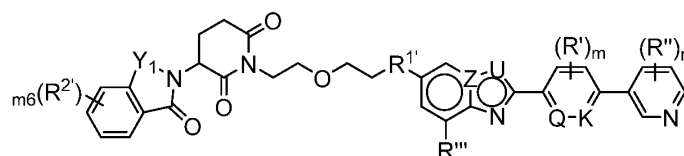
haloalkyl or C₁₋₃ alkoxy; R'' is H, F, Cl, OH, NH₂, C₁₋₃ alkoxy, methylamino, dimethylamino, diethylamino or cyclopropylamino.

31. The compound of claim 28, wherein $R^{3'}$ is H or C_{1-3} alkyl; A is O, NH,  or ; ; m_5 is 0 or 1; m_4 is 0, 1, 2, 3 or 4; m_3 is 1, 2, 3, 4, 5 or 6; $R^{1'}$ is O, NH, ; $R^{3''}$ is H, OH, C_{1-3} alkyl, C_{1-3} alkoxy or halogen; R' is H, halogen, OH, C_{1-3} alkyl, C_{1-3} haloalkyl or C_{1-3} alkoxy; R'' is H, halo, OH, NH_2 , C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} haloalkyl, C_{1-3} alkylamino, C_{3-5} cycloalkyl, C_{3-5} cycloalkylamino and C_{3-5} heterocycloalkyl.

32. The compound of claim 29, wherein $R^{3'}$ is H or C_{1-3} alkyl; A is O, NH,  or ; ; m_2 is 1, 2, 3, 4, 5, 6 or 7; $R^{1'}$ is O, NH,  or ; $R^{3''}$ is H, OH, C_{1-3} alkyl, C_{1-3} alkoxy or halogen; R' is H, halogen, OH, C_{1-3} alkyl, C_{1-3} haloalkyl or C_{1-3} alkoxy; m is 0, 1, 2 or 3; R'' is H, halo, OH, NH_2 , C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} haloalkyl, C_{1-3} alkylamino, C_{3-5} cycloalkyl, C_{3-5} cycloalkylamino or C_{3-5} heterocycloalkyl.

33. The compound of claim 20, wherein the compound is of Formula 1, 5, 6, 8, 10 or 13, and wherein K is CH and Q is N, or K is N and Q is CH, or both of K and Q are CH.

34. The compound of claim 15, wherein the compound is of Formula 3;



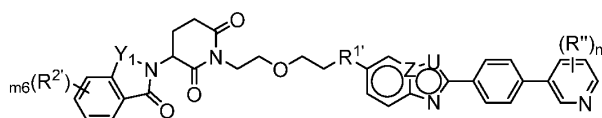
Formula 3.

35. The compound of claim 34, wherein $R^{2'}$ is H, OH, C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} alkylamino or NH_2 ; and/or, m_6 is 0, 1, 2 or 3; and/or, $R^{1'}$ is O or NH; and/or, R' is H, halogen, OH, C_{1-3} alkyl, C_{1-3} haloalkyl or C_{1-3} alkoxy; and/or, R'' is H, halo, OH, NH_2 , C_{1-3} alkoxy, C_{3-5}

cycloalkyl, C₃₋₅ cycloalkylamino or C₁₋₃ alkylamino; and/or, R''' is H, OH, C₁₋₃ alkyl, C₁₋₃ alkoxy or halogen.

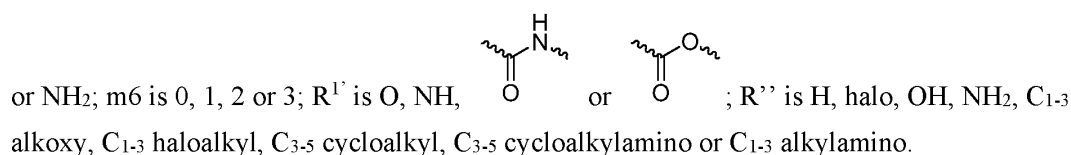
36. The compound of claim 34, wherein Z is C and U is O or S; or Z is N and U is CH; and/or, K is CH and Q is N, or K is N and Q is CH, or both of K and Q are CH.

37. The compound of claim 34, wherein the compound is of Formula 3-1;

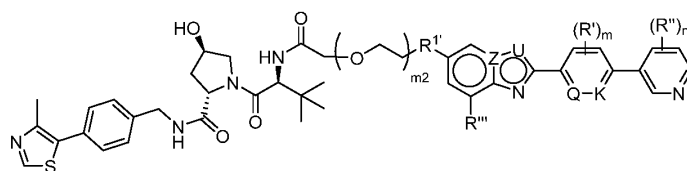


Formula 3-1.

38. The compound of claim 37, wherein R^{2'} is H, OH, C₁₋₃ alkyl, C₁₋₃ alkoxy, C₁₋₃ alkylamino

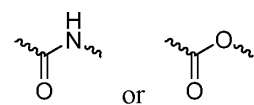


39. The compound of claim 16, wherein the compound is of Formula 15;



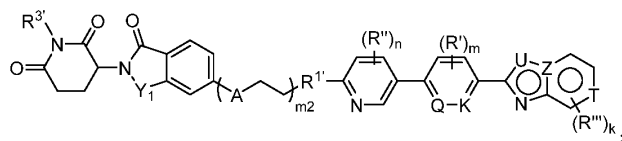
Formula 15.

40. The compound of claim 39, wherein m2 is 1, 2, 3, 4, 5, 6 or 7; and/or, R¹ is O, NH,

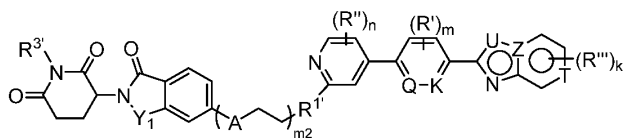


$\overset{\text{O}}{\parallel}$ or $\overset{\text{O}}{\parallel}$; and/or, R''' is H, OH, C₁₋₃ alkyl, C₁₋₃ alkoxy or halogen; and/or, R' is H, halogen, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; m is 0, 1, 2 or 3; and/or, R'' is H, halo, OH, NH₂, C₁₋₃ alkoxy, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino or C₁₋₃ alkylamino.

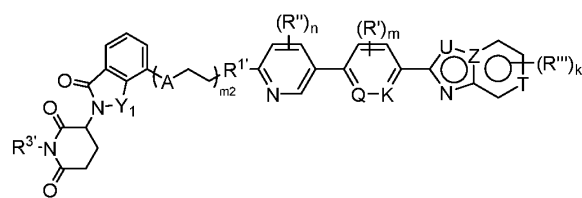
41. The compound of claim 17, wherein the compound is of Formula 2, 7, 9, 11, 12 or 14;



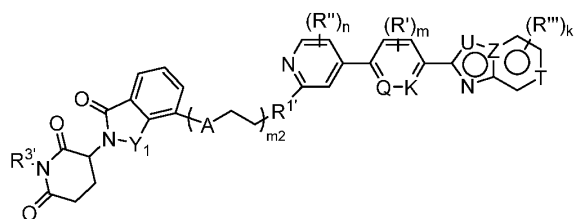
Formula 2



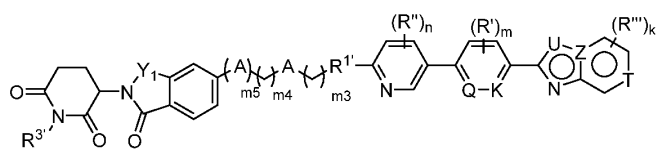
Formula 7



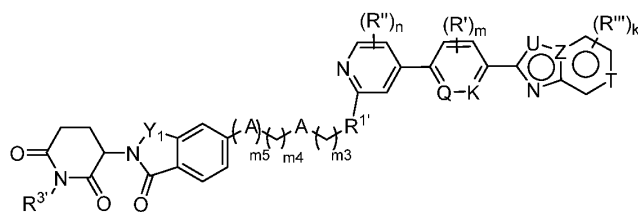
Formula 9



Formula 11

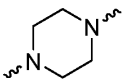


Formula 12



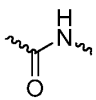
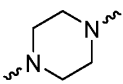
Formula 14.

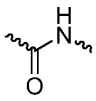
42. The compound of claim 41, wherein the compound is of Formula 2, and wherein R^{3'} is H

or C₁₋₃ alkyl; and/or, A is O, NH,  or ; and/or, m₂ is 2, 3, 4, 5 or 6;

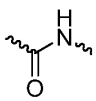
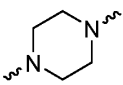
and/or, R^{1'} is O, NH,  or ; and/or, R^{2''} is H, halo, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkoxy, C₁₋₃ haloalkyl, C₁₋₃ alkylamino, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino or C₃₋₅ heterocycloalkyl; and/or, R' is H, halogen, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; and/or, m is 0, 1, 2 or 3; and/or, R^{3''} is H, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkylamino, C₁₋₃ alkoxy or halogen.

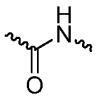
43. The compound of claim 41, wherein the compound is of Formula 7, and wherein R^{3'} is H

or C₁₋₃ alkyl; and/or, A is O, NH,  or ; and/or, m₂ is 2, 3, 4, 5 or 6;

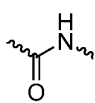
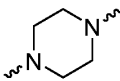
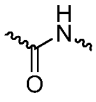
and/or, R^{1'} is O, NH,  or ; and/or, R^{2''} is H, halo, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkoxy, C₁₋₃ haloalkyl, C₁₋₃ alkylamino, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino or C₃₋₅ heterocycloalkyl; and/or, R' is H, halogen, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; and/or, m is 0, 1, 2 or 3.

44. The compound of claim 41, wherein the compound is of Formula 9, and wherein R^{3'} is H

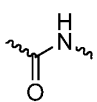
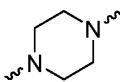
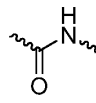
or C₁₋₃ alkyl; and/or, A is O, NH,  or ; and/or, m₂ is 2, 3, 4, 5 or 6;

and/or, R^{1'} is O, NH,  or ; and/or, R^{2''} is H, halo, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkoxy, C₁₋₃ haloalkyl, C₁₋₃ alkylamino, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino or C₃₋₅ heterocycloalkyl; and/or, R' is H, halogen, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; and/or, m is 0, 1, 2 or 3; and/or, R^{3''} is H, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkylamino, C₁₋₃ alkoxy or halogen.

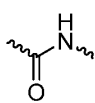
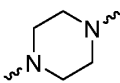
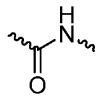
45. The compound of claim 41, wherein the compound is of Formula 11, and wherein $R^{3'}$ is

H or C_{1-3} alkyl; and/or, A is O, NH,  or ; and/or, m_2 is 2, 3, 4, 5 or 6; and/or, $R^{1'}$ is O, NH,  or ; and/or, $R^{2'}$ is H, halo, OH, NH_2 , C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} haloalkyl, C_{1-3} alkylamino, C_{3-5} cycloalkyl, C_{3-5} cycloalkylamino or C_{3-5} heterocycloalkyl; and/or, R' is H, halogen, OH, C_{1-3} alkyl, C_{1-3} haloalkyl or C_{1-3} alkoxy; and/or, m is 0, 1, 2 or 3; and/or, $R^{3''}$ is H, OH, NH_2 , C_{1-3} alkyl, C_{1-3} alkylamino, C_{1-3} alkoxy or halogen.

46. The compound of claim 41, wherein the compound is of Formula 12, and wherein $R^{3'}$ is

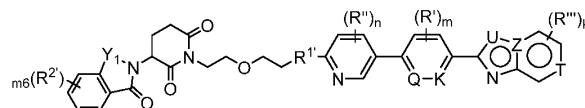
H or C_{1-3} alkyl; A is O, NH,  or ; m_3 is 1, 2, 3, 4, 5 or 6; m_4 is 0 or 1, 2 or 3; m_5 is 0 or 1, 2 or 3; $R^{1'}$ is O, NH,  or ; $R^{2'}$ is H, halo, OH, NH_2 , C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} haloalkyl, C_{1-3} alkylamino, C_{3-5} cycloalkyl, C_{3-5} cycloalkylamino or C_{3-5} heterocycloalkyl; R' is H, halogen, OH, C_{1-3} alkyl, C_{1-3} haloalkyl or C_{1-3} alkoxy; m is 0, 1, 2 or 3; $R^{3''}$ is H, OH, NH_2 , C_{1-3} alkyl, C_{1-3} alkylamino, C_{1-3} alkoxy or halogen.

47. The compound of claim 41, wherein the compound is of Formula 14, and wherein $R^{3'}$ is

H or C_{1-3} alkyl; and/or, A is O, NH,  or ; and/or, m_3 is 1, 2, 3, 4, 5 or 6; and/or, m_4 is 0, 1, 2, 3 or 4; and/or, m_5 is 0 or 1, 2 or 3; and/or, $R^{1'}$ is O, NH,  or ; and/or, $R^{2'}$ is H, halo, OH, NH_2 , C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} haloalkyl, C_{1-3} alkylamino, C_{3-5} cycloalkyl, C_{3-5} cycloalkylamino or C_{3-5} heterocycloalkyl; and/or, R' is H,

halogen, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; m is 0, 1, 2 or 3; and/or, R''' is H, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkylamino, C₁₋₃ alkoxy or halogen.

48. The compound of claim 18, wherein the compound is of Formula 4;

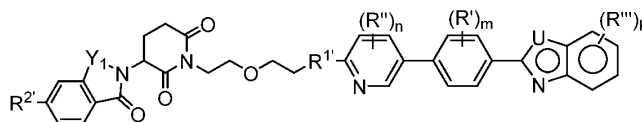


Formula 4.

49. The compound of claim 48, wherein R^{2'} is H, OH, C₁₋₃ alkyl, C₁₋₃ alkoxy, C₁₋₃ alkylamino

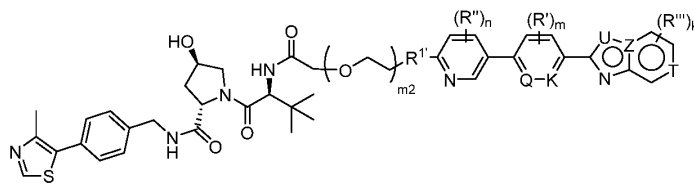
or NH₂; and/or, m₆ is 0, 1, 2 or 3; and/or, R^{1'} is O, NH,  and ; and/or, R' is H, halogen, OH, C₁₋₃ alkyl, C₁₋₃ haloalkyl or C₁₋₃ alkoxy; R'' is H, halo, OH, NH₂, C₁₋₃ alkoxy, C₃₋₅ cycloalkyl, C₃₋₅ cycloalkylamino or C₁₋₃ alkylamino; and/or, R''' is H, OH, NH₂, C₁₋₃ alkyl, C₁₋₃ alkylamino, C₁₋₃ alkoxy or halogen.

50. The compound of claim 48, wherein the compound is of Formula 4-1;

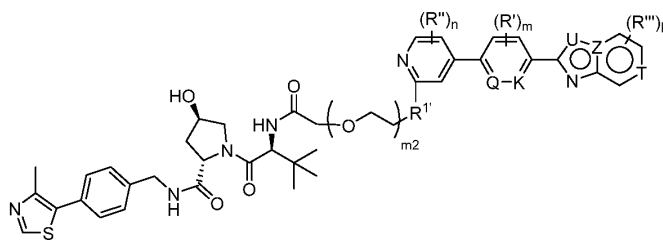


Formula 4-1.

51. The compound of claim 19, wherein the compound is of Formula 16 or 17;



Formula 16



Formula 17.

52. The compound of claim 51, wherein the compound is of Formula 16, and wherein Z is C, U is O or S and T is CH; or, Z is N, U is CH and T is CH; Z is C, T is N and U is CH.
53. The compound of claim 51, wherein the compound is of Formula 17, and wherein Z is C, U is O or S and T is CH; or, Z is N, U is CH and T is CH; Z is C, T is N and U is CH.
54. The compound of claim 1, wherein the compound is selected from the compound listed in Table 1.
55. A composition comprising the compound of any one of claims 1 to 54, and a pharmaceutically acceptable excipient.
56. A method for aiding in the treatment of a tauopathy or treating tauopathy in a subject, comprising administering an effective amount of the compound of any one of claims 1 to 54, or the composition of claim 55 to the subject.
57. A use of the compound of any one of claims 1 to 54, or the composition of claim 55 in manufacture a medicament for treating tauopathy.