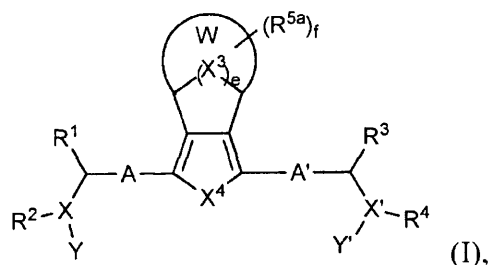


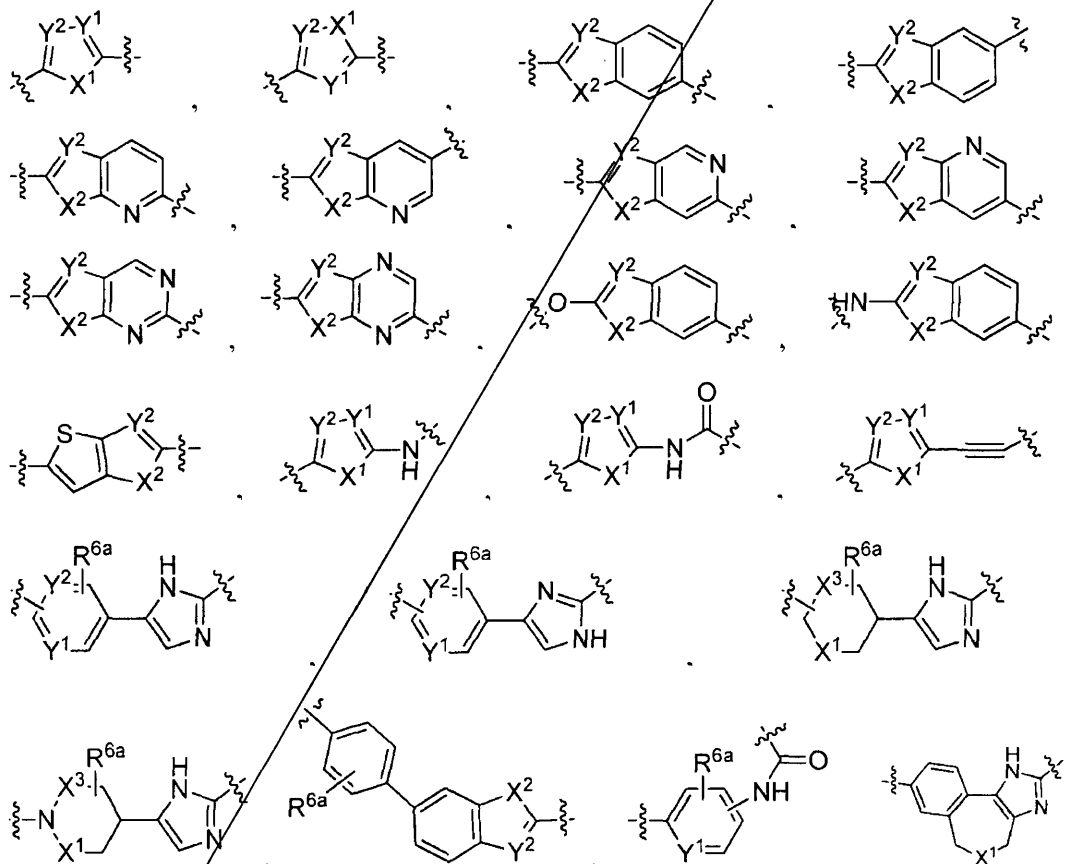
CLAIMS

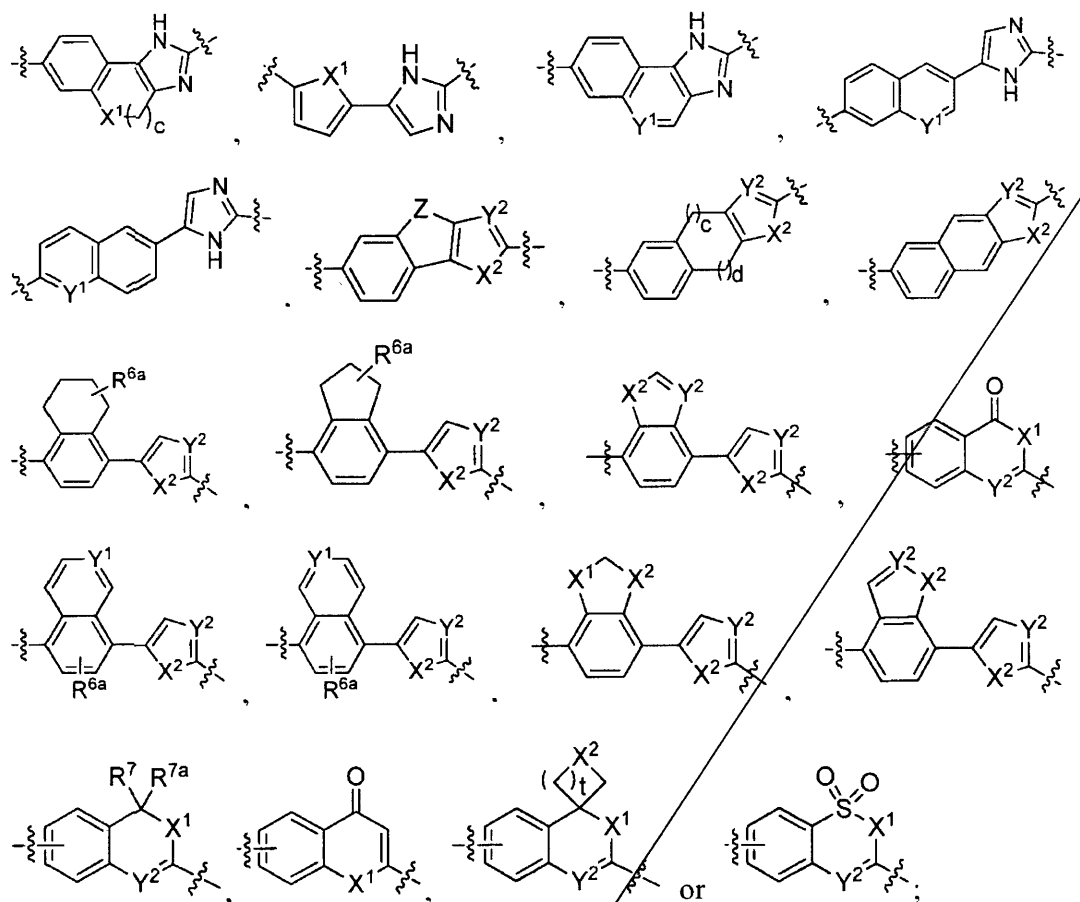
1. A compound of Formula (I):



or a stereoisomer, a geometric isomer, a tautomer, an *N*-oxide, a hydrate, a solvate, a metabolite, a pharmaceutically acceptable salt or a prodrug thereof,

wherein each of A and A' is independently a bond, alkyl, alkenyl, cycloalkyl, heterocycloalkyl, $-(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_n\text{-O-}(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_p-$, $-(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_n\text{-N(R}^{\text{5}})\text{-}(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_p-$, $-(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_n\text{-S(=O)}_r\text{-N(R}^{\text{5}})\text{-}(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_p-$, $-(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_n\text{-C(=O)-N(R}^{\text{5}})\text{-}(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_p-$, $-(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_n\text{-N(R}^{\text{5}})\text{-C(=O)-N(R}^{\text{5}})\text{-}(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_p-$, $-(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_n\text{-C(=O)-O-}(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_p-$, $-(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_n\text{-N(R}^{\text{5}})\text{-S(=O)}_r\text{-N(R}^{\text{5}})\text{-}(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_p-$, or $-(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_n\text{-N(R}^{\text{5}})\text{-C(=O)-O-}(\text{CR}^{\text{8a}}\text{R}^{\text{8a}})_p-$, or each of A and A' is independently



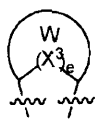


wherein each X^1 is independently O, S, NR^6 , or CR^7R^{7a} ;

each X^2 is independently NR^6 , O or S;

each X^3 is independently O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ;

X^4 is $(CR^7R^{7a})_n$, $Y^1=Y^2$, O, S or NR^6 ;



is carbocyclyl or heterocyclyl;

each Y^1 and Y^2 is independently N or CR^7 ;

Z is $-(CH_2)_a-$, $-CH=CH-$, $-N=CH-$, $-(CH_2)_a-N(R^5)-(CH_2)_b-$, or $-(CH_2)_a-O-(CH_2)_b-$,
wherein each a and b is independently 0, 1, 2 or 3;

each c is independently 1 or 2;

each d is independently 1 or 2;

each n is independently 0, 1, 2 or 3;

each p is independently 0, 1, 2 or 3;

each r is independently 0, 1 or 2;

e is 0, 1, 2, 3 or 4 with the proviso that where X^3 is O, S or NR^6 , e is 1;

f is 0, 1, 2, 3 or 4;

each of X and X' is independently N or CR^7 ;

each of Y and Y' is independently H, deuterium, alkyl, heteroalkyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, aralkyl, a group derived from α -amino acid or an optical isomer thereof, or each of Y and Y' is independently $-[U-(CR^9R^{9a})_t-N(R^{10})-(CR^9R^{9a})_k-U-(CR^9R^{9a})_l-N(R^{11})-(CR^9R^{9a})_i-R^{12}$, $-U-(CR^9R^{9a})_i-R^{12}$ or $-[U-(CR^9R^{9a})_t-N(R^{10})-(CR^9R^{9a})_k-U-(CR^9R^{9a})_l-O-(CR^9R^{9a})_i-R^{12}$;

each U is independently $-C(=O)-$, $-C(=S)-$, $-S(=O)-$ or $-S(=O)_2-$;

each t is independently 0, 1, 2, 3 or 4;

each k is independently 0, 1 or 2;

each of R^1 , R^2 , R^3 and R^4 is independently H, deuterium, alkyl, heteroalkyl, aralkyl, cycloalkyl, heterocyclyl, heteroaryl or aryl; or R^1 and R^2 , together with X-CH they are attached to, optionally form a 3-8 membered heterocycle or carbocycle, C_{5-12} fused bicycle, C_{5-12} fused heterobicycle, C_{5-12} spiro bicycle or C_{5-12} spiro heterobicycle; or R^3 and R^4 , together with X'-CH they are attached to, optionally form a 3-8 membered heterocycle or carbocycle, C_{5-12} fused bicycle, C_{5-12} fused heterobicycle, C_{5-12} spiro bicycle or C_{5-12} spiro heterobicycle;

each R^5 is independently H, deuterium, hydroxy, alkyl, heteroalkyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, aralkyl, alkoxy, alkyl- $OC(=O)-$, alkyl- $C(=O)-$, carbamoyl, alkyl- $OS(=O)-$, alkyl- $S(=O)O-$, alkyl- $S(=O)-$ or aminosulfonyl;

each R^{5a} is independently H, deuterium, oxo ($=O$), hydroxy, amino, F, Cl, Br, I, cyano, R^7aR^7N- , $-C(=O)NR^7R^7a$, $-OC(=O)NR^7R^7a$, $-OC(=O)OR^7$, $-N(R^7)C(=O)NR^7R^7a$, $-N(R^7)C(=O)OR^7a$, $-N(R^7)C(=O)-R^7a$, $R^7R^7aN-S(=O)_2-$, $R^7S(=O)_2-$, $R^7S(=O)_2N(R^7a)-$, R^7aR^7N -alkyl, $R^7S(=O)$ -alkyl, $R^7R^7aN-C(=O)$ -alkyl, R^7aR^7N -alkoxy, $R^7S(=O)$ -alkoxy, $R^7R^7aN-C(=O)$ -alkoxy, aryl, heteroaryl, alkoxy, alkylamino, alkyl, haloalkyl, alkenyl, alkynyl, heterocyclyl, cycloalkyl, mercapto, nitro, aralkyl, arylamino, heteroaryl amino, arylalkyl amino, heteroarylalkyl amino, heteroaryl oxy, heteroarylalkyl, arylalkoxy, heteroarylalkoxy, heterocycl oxy, heterocyclylalkoxy, heterocyclyl amino, heterocyclylalkyl amino or aryloxy;

each R^6 is independently H, deuterium, $R^7R^7aNC(=O)-$, $R^7OC(=O)-$, $R^7C(=O)-$,

$R^7R^{7a}NS(=O)-$, $R^7OS(=O)-$, $R^7S(=O)-$, $R^7R^{7a}NS(=O)_2-$, $R^7OS(=O)_2-$, $R^7S(=O)_2-$, aliphatic, haloaliphatic, hydroxyaliphatic, aminoaliphatic, alkoxyaliphatic, alkylaminoaliphatic, alkylthioaliphatic, arylaliphatic, heteroarylaliphatic, heterocyclylaliphatic, cycloalkylaliphatic, aryloxyaliphatic, heterocyclyloxyaliphatic, cycloalkyloxyaliphatic, arylaminoaliphatic, heterocyclylaminoaliphatic, cycloalkylaminoaliphatic, aryl, heteroaryl, heterocyclyl or carbocyclyl;

each R^{6a} is independently H, deuterium, hydroxy, amino, F, Cl, Br, I, cyano, oxo ($=O$), $R^{7a}R^7N-$, $-C(=O)NR^7R^{7a}$, $-OC(=O)NR^7R^{7a}$, $-OC(=O)OR^7$, $-N(R^7)C(=O)NR^7R^{7a}$, $-N(R^7)C(=O)OR^{7a}$, $-N(R^7)C(=O)-R^{7a}$, $R^7R^{7a}N-S(=O)_2-$, $R^7S(=O)_2-$, $R^7S(=O)_2N(R^{7a})-$, $R^{7a}R^7N$ -alkyl, $R^7S(=O)$ -alkyl, $R^7R^{7a}N-C(=O)$ -alkyl, $R^{7a}R^7N$ -alkoxy, $R^7S(=O)$ -alkoxy, $R^7R^{7a}N-C(=O)$ -alkoxy, aryl, heteroaryl, alkoxy, alkylamino, alkyl, haloalkyl, alkenyl, alkynyl, heterocyclyl, cycloalkyl, mercapto, nitro, aralkyl, arylamino, heteroarylamino, arylalkylamino, heteroarylalkylamino, heteroaryloxy, heteroarylalkyl, arylalkoxy, heteroarylalkoxy, heterocyclyloxy, heterocyclylalkoxy, heterocyclylamino, heterocyclylalkylamino, or aryloxy;

each R^7 and R^{7a} is independently H, deuterium, F, Cl, aliphatic, heteroalkyl, haloaliphatic, hydroxyaliphatic, aminoaliphatic, alkoxyaliphatic, alkylaminoaliphatic, alkylthioaliphatic, arylaliphatic, heterocyclylaliphatic, cycloalkylaliphatic, aryloxyaliphatic, heterocyclyloxyaliphatic, cycloalkyloxyaliphatic, arylaminoaliphatic, heterocyclylaminoaliphatic, cycloalkylaminoaliphatic, aryl, heteroaryl, heterocyclyl or carbocyclyl, with the proviso that where R^7 and R^{7a} are bonded to the same nitrogen atom, R^7 and R^{7a} , together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, or a substituted or unsubstituted spiro or fused bicyclic ring;

each R^8 and R^{8a} is independently H, deuterium, hydroxy, cyano, nitro, F, Cl, Br, I, alkyl, heteroalkyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, aralkyl, alkoxy, alkyl- $OC(=O)-$, alkyl- $C(=O)-$, carbamoyl, alkyl- $OS(=O)_c-$, alkyl- $S(=O)_cO-$, alkyl- $S(=O)_c-$, or aminosulfonyl;

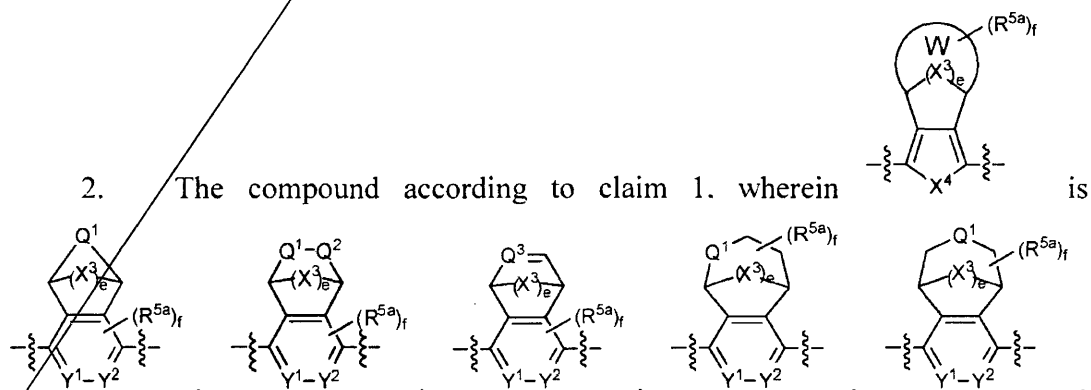
each R^9 , R^{9a} , R^{10} and R^{11} is independently H, deuterium, alkyl, heteroalkyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, aralkyl, haloalkyl, hydroxyalkyl, heteroarylalkyl, heterocyclylalkyl, or cycloalkylalkyl;

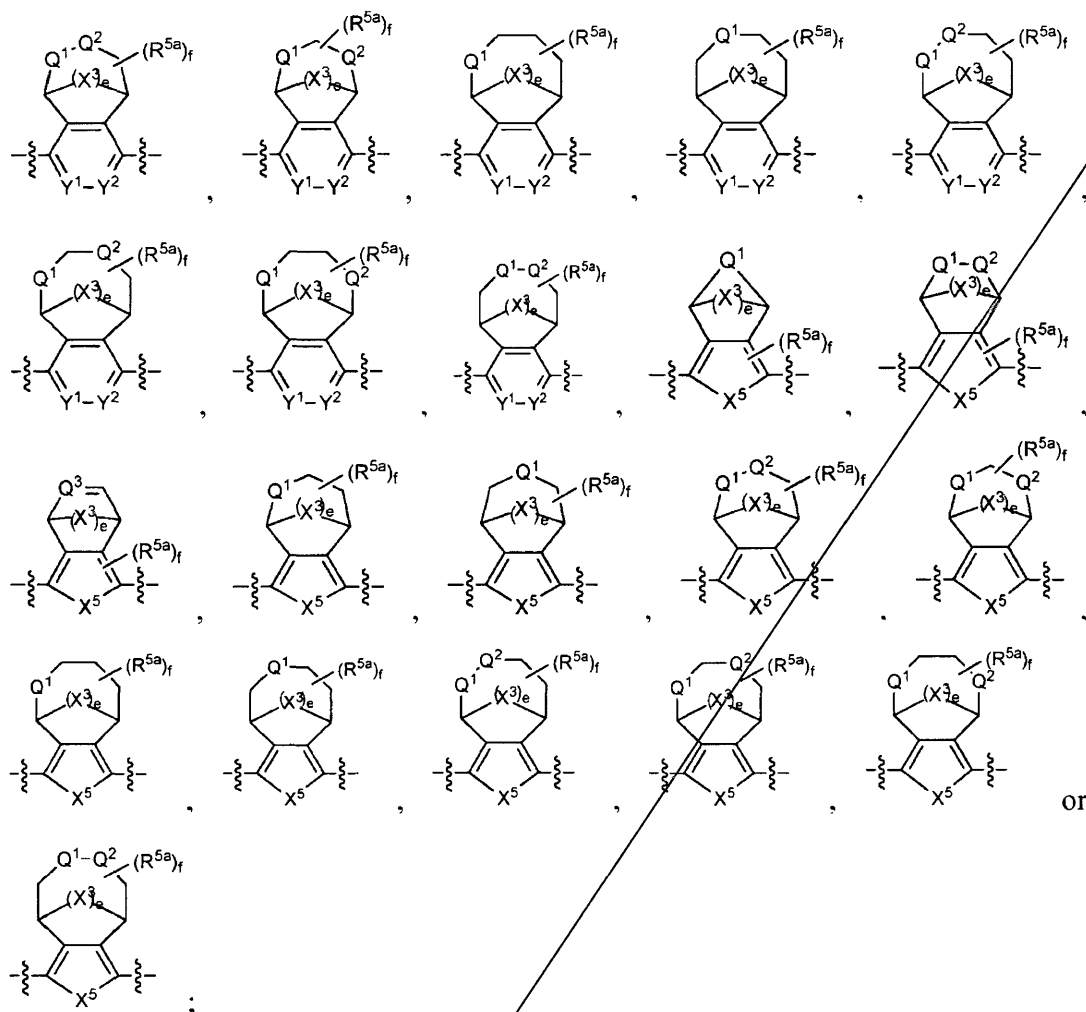
each R^{12} is independently $R^{13a}R^{13}N-$, $-C(=O)R^{13}$, $-C(=S)R^{13}$, $-C(=O)-O-R^{13}$, $-C(=O)NR^{13}R^{13a}$, $-OC(=O)NR^{13}R^{13a}$, $-OC(=O)OR^{13}$, $-N(R^{13})C(=O)NR^{13}R^{13a}$, $-N(R^{13})C(=O)OR^{13a}$, $-N(R^{13})C(=O)-R^{13a}$, $R^{13}R^{13a}N-S(=O)_2-$, $R^{13}S(=O)_2-$, $R^{13}S(=O)_2N(R^{13a})-$, $R^{13}OS(=O)_2-$, alkyl, heteroalkyl, cycloalkyl, heterocyclyl, aryl, heteroaryl or aralkyl; or R^{11} and R^{12} are optionally joined to form a 4-7 membered ring; and

each R^{13} and R^{13a} is independently H, deuterium, alkyl, heteroalkyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, or aralkyl;

wherein each of $-(\text{CR}^8\text{R}^{8a})_n\text{-O-}(\text{CR}^8\text{R}^{8a})_p\text{-}$, $-(\text{CR}^8\text{R}^{8a})_n\text{-N(R}^5\text{)-}(\text{CR}^8\text{R}^{8a})_p\text{-}$, $-(\text{CR}^8\text{R}^{8a})_n\text{-S(=O)}_r\text{-N(R}^5\text{)-}(\text{CR}^8\text{R}^{8a})_p\text{-}$, $-(\text{CR}^8\text{R}^{8a})_n\text{-C(=O)-N(R}^5\text{)-}(\text{CR}^8\text{R}^{8a})_p\text{-}$, $-(\text{CR}^8\text{R}^{8a})_n\text{-N(R}^5\text{)-C(=O)-N(R}^5\text{)-}(\text{CR}^8\text{R}^{8a})_p\text{-}$, $-(\text{CR}^8\text{R}^{8a})_n\text{-C(=O)-O-}(\text{CR}^8\text{R}^{8a})_p\text{-}$, $-(\text{CR}^8\text{R}^{8a})_n\text{-N(R}^5\text{)-S(=O)}_r\text{-N(R}^5\text{)-}(\text{CR}^8\text{R}^{8a})_p\text{-}$, $-(\text{CR}^8\text{R}^{8a})_n\text{-N(R}^5\text{)-C(=O)-O-}(\text{CR}^8\text{R}^{8a})_p\text{-}$, $-\text{[U-}(\text{CR}^9\text{R}^{9a})_i\text{-N(R}^{10}\text{)-}(\text{CR}^9\text{R}^{9a})_j\text{]}_k\text{-U-}(\text{CR}^9\text{R}^{9a})_i\text{-N(R}^{11}\text{)-}(\text{CR}^9\text{R}^{9a})_j\text{-R}^{12}$, $-\text{U-}(\text{CR}^9\text{R}^{9a})_i\text{-R}^{12}$, $-\text{[U-}(\text{CR}^9\text{R}^{9a})_i\text{-N(R}^{10}\text{)-}(\text{CR}^9\text{R}^{9a})_j\text{]}_k\text{-U-}(\text{CR}^9\text{R}^{9a})_i\text{-O-}(\text{CR}^9\text{R}^{9a})_j\text{-R}^{12}$, NR^6 , CR^7R^7a , CR^7 , $-(\text{CH}_2)_a\text{-}$, $-\text{CH=CH-}$, $-\text{N=CH-}$, $-(\text{CH}_2)_a\text{-N(R}^5\text{)-}(\text{CH}_2)_b\text{-}$, $-(\text{CH}_2)_a\text{-O-}(\text{CH}_2)_b\text{-}$, $\text{R}^{13a}\text{R}^{13}\text{N-}$, $-\text{C(=O)R}^{13}$, $-\text{C(=S)R}^{13}$, $-\text{C(=O)-O-R}^{13}$, $-\text{C(=O)NR}^{13}\text{R}^{13a}$, $-\text{OC(=O)NR}^{13}\text{R}^{13a}$, $-\text{OC(=O)OR}^{13}$, $-\text{N(R}^{13}\text{)C(=O)NR}^{13}\text{R}^{13a}$, $-\text{N(R}^{13}\text{)C(=O)OR}^{13a}$, $-\text{N(R}^{13}\text{)C(=O)-R}^{13a}$, $\text{R}^{13}\text{R}^{13a}\text{N-S(=O)}_2\text{-}$, $\text{R}^{13}\text{S(=O)}_2\text{-}$, $\text{R}^{13}\text{S(=O)}_2\text{N(R}^{13a}\text{)-}$, $\text{R}^{13}\text{OS(=O)}_2\text{-}$, $\text{R}^{7a}\text{R}^7\text{N-}$, $-\text{C(=O)NR}^7\text{R}^{7a}$, $-\text{OC(=O)NR}^7\text{R}^{7a}$, $-\text{OC(=O)OR}^7$, $-\text{N(R}^7\text{)C(=O)NR}^7\text{R}^{7a}$, $-\text{N(R}^7\text{)C(=O)OR}^{7a}$, $-\text{N(R}^7\text{)C(=O)-R}^{7a}$, $\text{R}^7\text{R}^{7a}\text{N-S(=O)}_2\text{-}$, $\text{R}^7\text{S(=O)}_2\text{-}$, $\text{R}^7\text{S(=O)}_2\text{N(R}^{7a}\text{)-}$, alkyl-OC(=O)-, alkyl-C(=O)-, alkyl-OS(=O)-, alkyl-S(=O)-, alkyl-S(=O)-, $\text{R}^7\text{R}^{7a}\text{NC(=O)-}$, $\text{R}^7\text{OC(=O)-}$, $\text{R}^7\text{C(=O)-}$, $\text{R}^7\text{R}^{7a}\text{NS(=O)-}$, $\text{R}^7\text{OS(=O)-}$, $\text{R}^7\text{S(=O)-}$, $\text{R}^7\text{R}^{7a}\text{NS(=O)}_2\text{-}$, $\text{R}^7\text{OS(=O)}_2\text{-}$, $\text{R}^7\text{R}^{7a}\text{N-alkyl}$, $\text{R}^7\text{S(=O)-alkyl}$, $\text{R}^7\text{R}^{7a}\text{N-C(=O)-alkyl}$, $\text{R}^{7a}\text{R}^7\text{N-alkoxy}$, $\text{R}^7\text{S(=O)-alkoxy}$, $\text{R}^7\text{R}^{7a}\text{N-C(=O)-alkylamino}$, alkyl, heteroalkyl, carbocyclyl, cycloalkyl, heterocyclyl, heterocycloalkyl, aryl, heteroaryl, aralkyl, a group derived from α -amino acid, C_{5-12} fused bicycle, C_{5-12} fused heterobicycle, C_{5-12} spiro bicycle, C_{5-12} spiro heterobicycle, alkoxy, aliphatic, haloaliphatic, hydroxyaliphatic, aminoaliphatic, alkoxyaliphatic, alkylaminoaliphatic, alkylthioaliphatic, arylaliphatic, heteroarylaliphatic, heterocyclylaliphatic, cycloalkylaliphatic, aryloxyaliphatic, heterocyclilyloxyaliphatic, cycloalkyloxyaliphatic, alkylaminoaliphatic, heterocyclylaminoaliphatic, cycloalkylaminoaliphatic, haloalkyl, alkenyl, alkynyl, arylamino, heteroarylamino, arylalkylamino, heteroarylalkylamino, heteroaryloxy, heteroarylalkyl, arylalkoxy, heteroarylalkoxy, heterocyclilyloxy, heterocyclilylalkoxy, heterocyclylamino, heterocyclilylalkylamino and aryloxy is optionally substituted with one or more substituents, wherein the substituent is deuterium, hydroxy, amino, halo, cyano, aryl, heteroaryl, alkoxy, alkylamino, alkylthio, alkyl, alkenyl, alkynyl, heterocyclyl, mercapto, nitro, aryloxy, heteroaryloxy, oxo (=O), carboxy, hydroxy-substituted alkoxy, hydroxy-substituted alkyl-C(=O)-, alkyl-C(=O)-, alkyl-S(=O)-, alkyl-S(=O)₂-, hydroxy-substituted alkyl-S(=O)-, hydroxy-substituted alkyl-S(=O)₂-, or carboxy-substituted alkoxy.

2. /The compound according to claim 1, wherein





each Y^1 and Y^2 is independently N or CR^7 ;

each X^3 is independently O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ;

each X^5 is independently CR^7R^{7a} , O, S or NR^6 ;

each Q^1 and Q^2 is independently NR^6 , O, S, $C(=O)$, or CR^7R^{7a} ;

each Q^3 is independently N or CR^7 ;

each e is independently 0, 1, 2, 3 or 4 with the proviso that where X^3 is O, S or NR^6 , e is 1;

each f is independently 0, 1, 2 or 3;

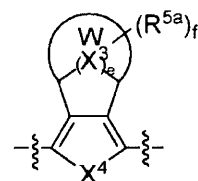
each R^{5a} is independently H, deuterium, oxo ($=O$), hydroxy, amino, F, Cl, Br, I, cyano, R^7R^7N -, $-C(=O)NR^7R^{7a}$ -, $-OC(=O)NR^7R^{7a}$ -, $-OC(=O)OR^7$ -, $-N(R^7)C(=O)NR^7R^{7a}$ -, $-N(R^7)C(=O)OR^7$ -, $-N(R^7)C(=O)-R^{7a}$ -, $R^7R^{7a}N-S(=O)_2$ -, $R^7S(=O)_2$ -, $R^7S(=O)_2N(R^{7a})$ -, $R^7R^7N-C_{1-6}$ alkyl, $R^7S(=O)-C_{1-6}$ alkyl, $R^7R^{7a}N-C(=O)-C_{1-6}$ alkyl, $R^7R^7N-C_{1-6}$ alkoxy,

$R^7S(=O)-C_{1-6}$ alkoxy, $R^7R^{7a}N-C(=O)-C_{1-6}$ alkoxy, C_{6-10} aryl, C_{1-9} heteroaryl, C_{1-6} alkoxy, C_{1-6} alkylamino, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, mercapto, nitro, C_{6-10} aralkyl, C_{6-10} arylamino, C_{1-9} heteroaryl-amino, C_{6-10} aryl- C_{1-6} -alkylamino, C_{1-9} heteroaryl- C_{1-6} -alkylamino, C_{1-9} heteroaryloxy, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkoxy, C_{1-9} heteroaryl- C_{1-6} -alkoxy, C_{2-10} heterocyclyloxy, C_{2-10} heterocyclyl- C_{1-6} -alkoxy, C_{2-10} heterocyclylamino, C_{2-10} heterocyclyl- C_{1-6} -alkylamino or C_{6-10} aryloxy;

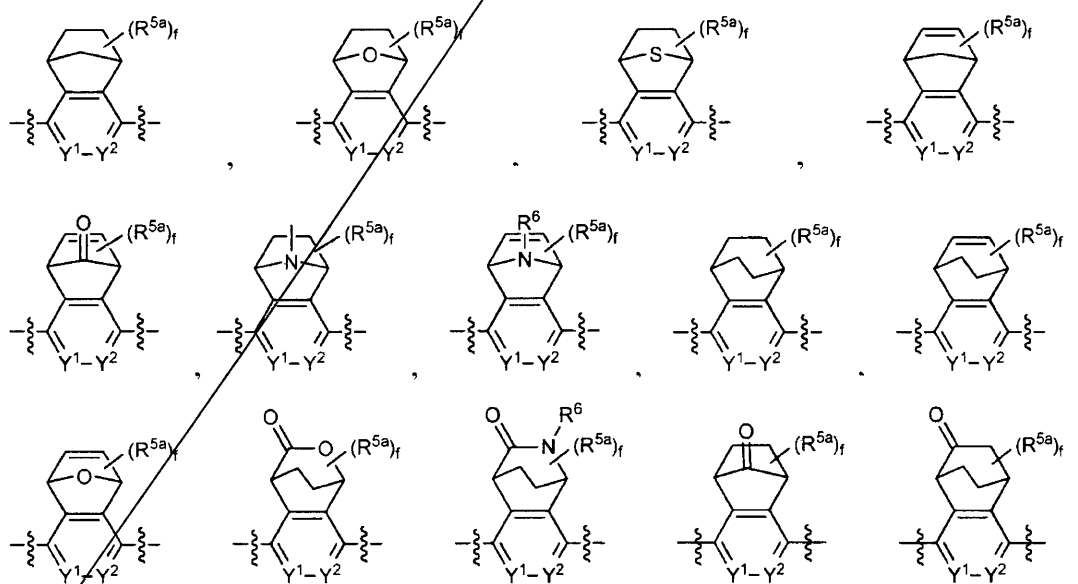
each R^6 is independently H, deuterium, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-6} -alkyl, C_{1-6} alkylamino- C_{1-6} -alkyl, C_{1-6} alkylthio- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl, C_{6-10} aryl, C_{3-9} heterocyclyl or C_{3-8} carbocyclyl; and

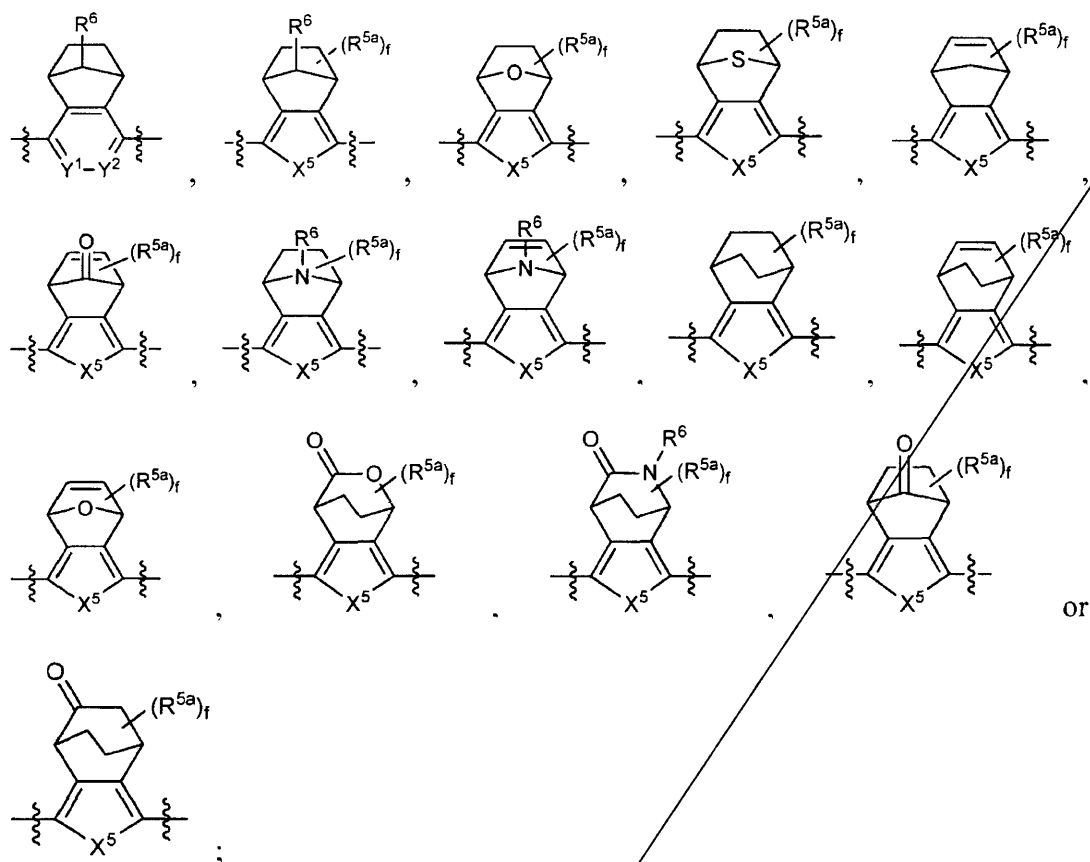
each R^7 and R^{7a} is independently H, deuterium, F, Cl, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{1-6} haloalkyl, hydroxy, amino, C_{1-6} alkoxy, C_{6-10} aryl, C_{2-9} heterocyclyl, C_{3-9} cycloalkyl, C_{6-10} aryloxy, C_{2-9} heterocyclyloxy, C_{6-10} arylamino, C_{2-9} heterocyclylamino, C_{3-9} cycloalkylamino, C_{1-9} heteroaryl or C_{3-9} carbocyclyl, with the proviso that where R^7 and R^{7a} are bonded to the same nitrogen atom, R^7 and R^{7a} , together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, or a substituted or unsubstituted spiro or fused bicyclic ring.

3. The compound according to claim 2, wherein



is





wherein each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-6} alkylacyl, C_{1-6} alkylacyloxy, C_{1-6} alkoxyacyl, C_{1-6} alkylsulfonyl, C_{1-6} alkoxysulfonyl, C_{1-6} alkylsulfinyl, C_{1-6} alkylsulfonyloxy, C_{1-6} alkylsulfinyloxy, C_{1-6} alkoxy, C_{1-6} alkyl, C_{6-10} aryl, $-CF_3$, $-OCF_3$, mercapto, nitro, or C_{1-6} alkylamino;

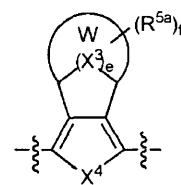
each Y^1 and Y^2 is independently N or CR^7 ;

each X^5 is independently CR^7R^{7a} , O, S, $C(=O)$ or NR^6 ;

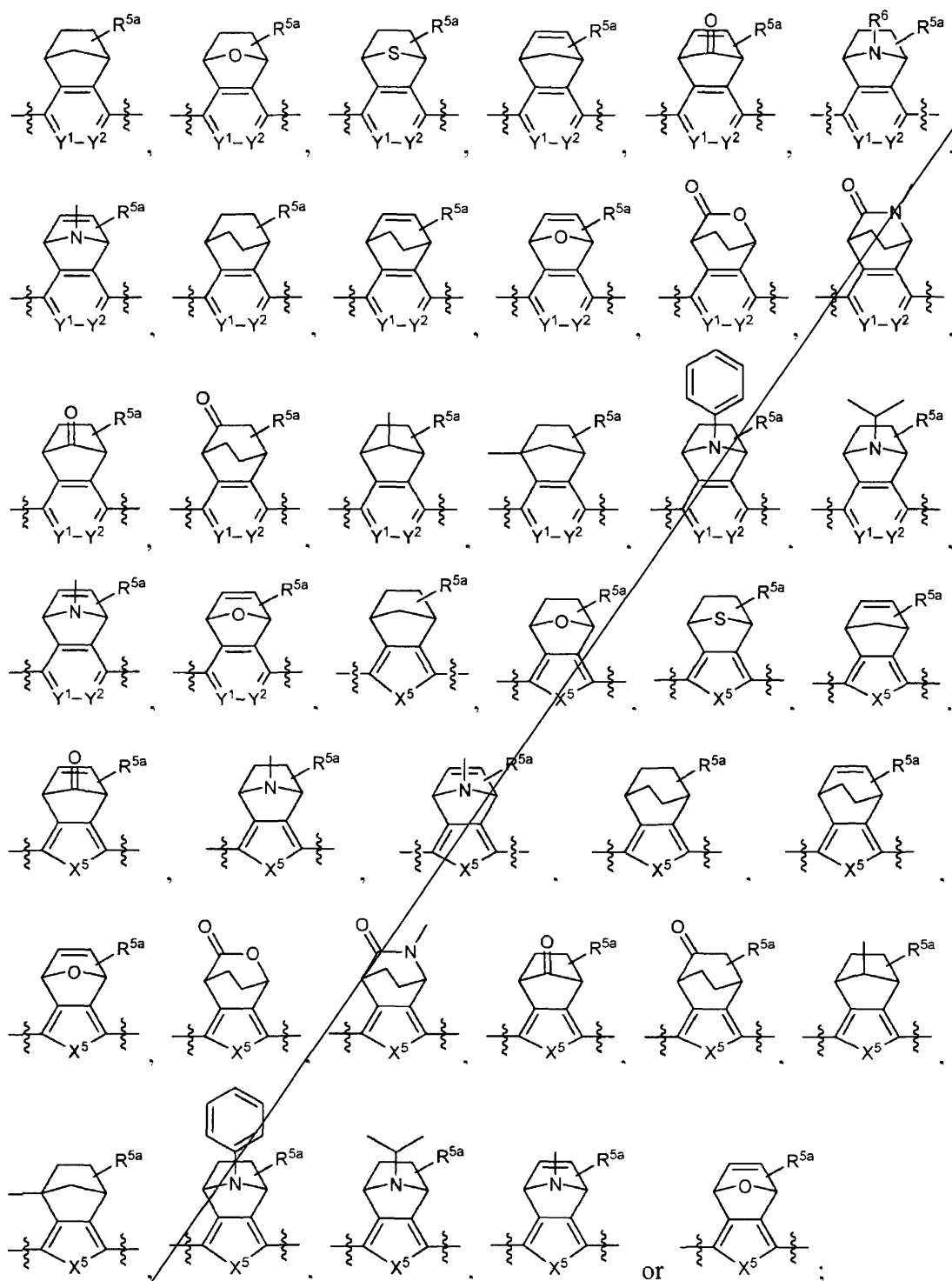
each f is independently 0, 1, 2 or 3; and

each R^6 is independently H, deuterium, C_{1-4} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-4} -alkyl, C_{1-6} alkylamino- C_{1-4} -alkyl, C_{1-6} alkylthio- C_{1-4} -alkyl, C_{6-10} aryl- C_{1-4} -alkyl, C_{1-9} heteroaryl, C_{6-10} aryl, C_{3-9} heterocyclyl or C_{3-8} carbocyclyl.

4. The compound according to claim 3, wherein



is



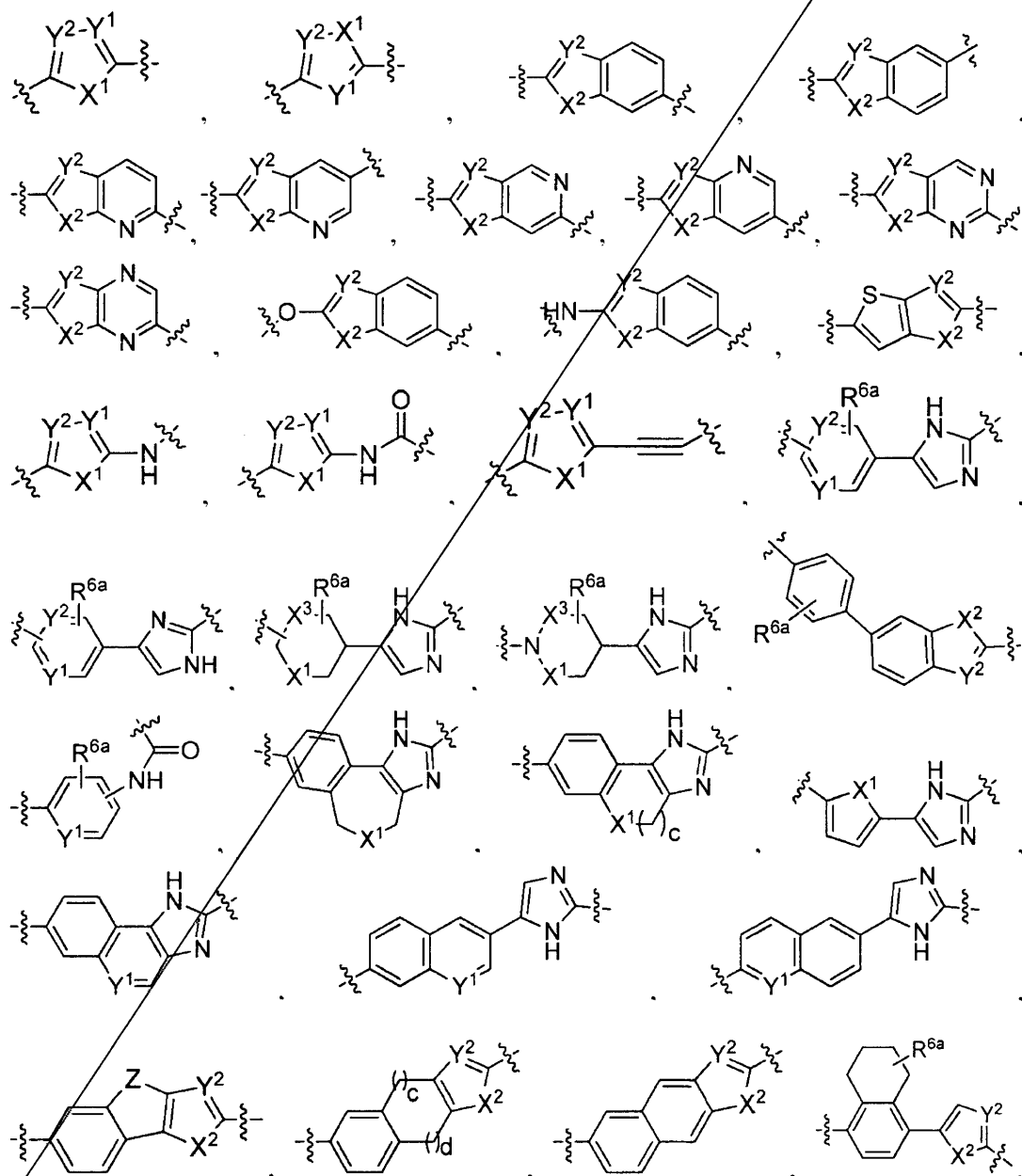
wherein each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-4} alkyl, $-CF_3$, $-OCF_3$, mercapto, nitro, or C_{1-4} alkylamino;

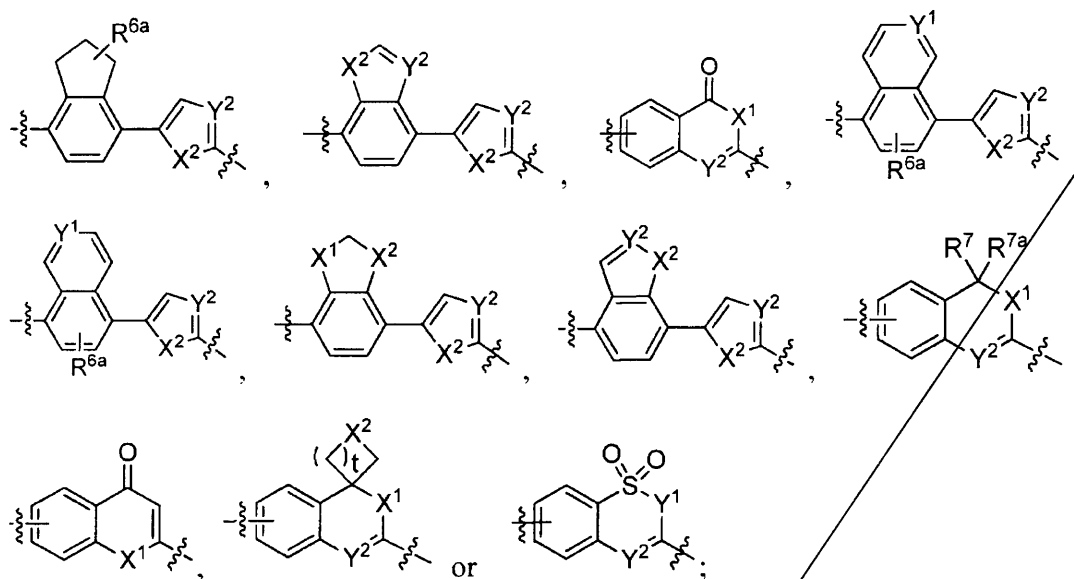
each Y^1 and Y^2 is independently N or CH;

each X^5 is independently CH_2 , O, S or NR^6 ; and

each R^6 is independently H, deuterium, C_{1-4} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-4} -alkyl, C_{1-6} alkylamino- C_{1-4} -alkyl, C_{1-6} alkylthio- C_{1-4} -alkyl, C_{6-10} aryl- C_{1-4} alkyl, C_{1-9} heteroaryl, C_{6-10} aryl, C_{3-9} heterocyclyl or C_{3-8} carbocyclyl.

5. The compound according to claim 1, wherein each of A and A' is independently a bond, C_{1-6} alkyl, C_{2-6} alkenyl, C_{3-8} cycloalkyl, C_{2-10} heterocycloalkyl, $-(CR^8R^{8a})_n-O-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-S(=O)_r-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-C(=O)-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-C(=O)-O-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-S(=O)_r-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-C(=O)-O-(CR^8R^{8a})_p-$, or each of A and A' is independently





wherein each R⁵ is independently H, deuterium, hydroxy, C₁₋₆ alkyl, C₁₋₆ heteroalkyl, C₃₋₈ cycloalkyl, C₂₋₁₀ heterocyclyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₆ alkoxy, C₁₋₆ alkyl-OC(=O)-, C₁₋₆ alkyl-C(=O)-, carbamoyl, C₁₋₆ alkyl-OS(=O)_r-, C₁₋₆ alkyl-S(=O)_rO-, C₁₋₆ alkyl-S(=O)_r-, or aminosulfonyl;

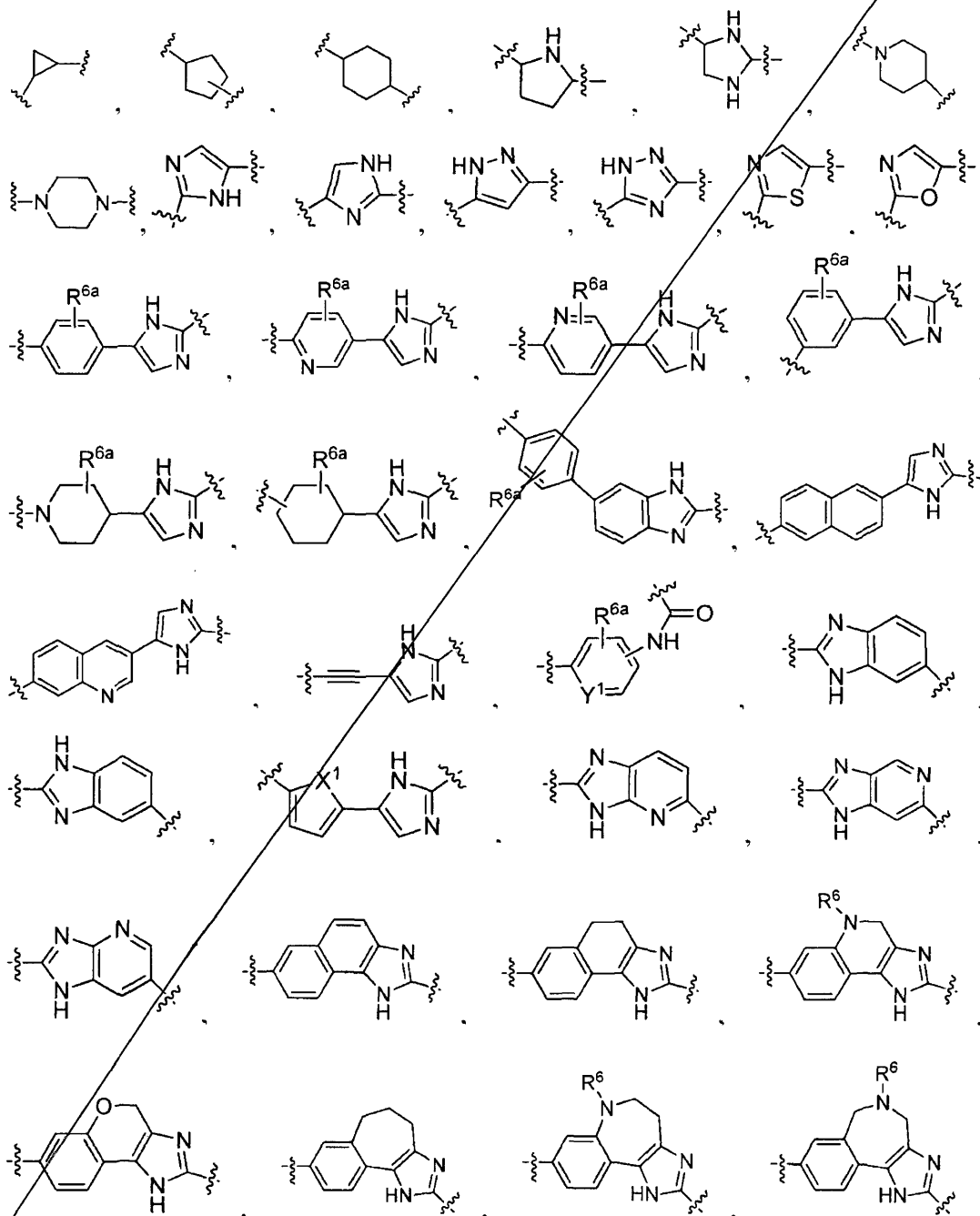
each R^{6a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, R^{7a}R⁷N-, -C(=O)NR⁷R^{7a}, -OC(=O)NR⁷R^{7a}, -OC(=O)OR⁷, -N(R⁷)C(=O)NR⁷R^{7a}, -N(R⁷)C(=O)OR^{7a}, -N(R⁷)C(=O)-R^{7a}, R⁷R^{7a}N-S(=O)₂-, R⁷S(=O)₂-, R⁷S(=O)₂N(R^{7a})-, R^{7a}R⁷N-C₁₋₆ alkyl, R⁷S(=O)-C₁₋₆ alkyl, R⁷R^{7a}N-C(=O)-C₁₋₆ alkyl, R^{7a}R⁷N-C₁₋₆ alkoxy, R⁷S(=O)-C₁₋₆ alkoxy, R⁷R^{7a}N-C(=O)-C₁₋₆ alkoxy, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₁₋₆ alkoxy, C₁₋₆ alkylamino, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₂₋₁₀ heterocyclyl, C₃₋₈ cycloalkyl, mercapto, nitro, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₆₋₁₀ arylamino, C₁₋₉ heteroaryl-amino, or C₆₋₁₀ aryloxy;

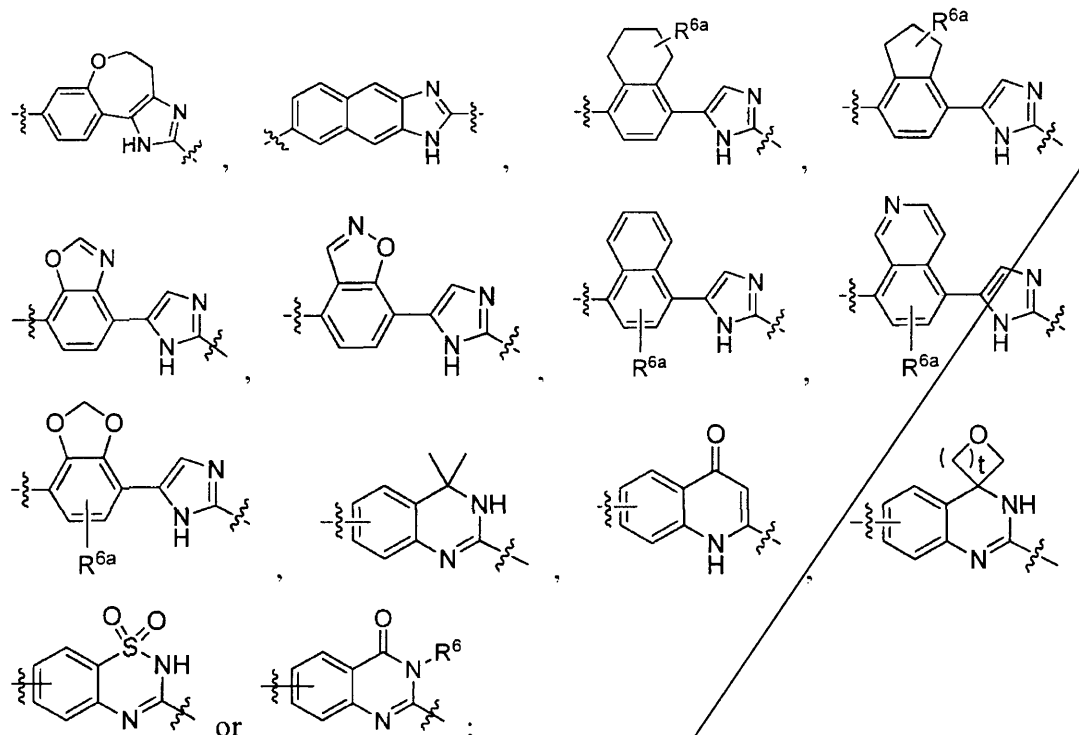
each R⁷ and R^{7a} is independently H, deuterium, F, Cl, C₁₋₆ alkyl, C₁₋₆ heteroalkyl, C₁₋₆ haloaliphatic, hydroxy C₁₋₆ alkyl, amino C₁₋₆ alkyl, C₁₋₆ alkoxy-C₁₋₆-alkyl, C₁₋₆ alkylamino-C₁₋₆-alkyl, C₁₋₆ alkylthio-C₁₋₆-alkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₉ heterocyclyl-C₁₋₆-alkyl, C₃₋₈ cycloalkyl-C₁₋₆-alkyl, C₆₋₁₀ aryloxy-C₁₋₆-alkyl, C₂₋₁₀ heterocycliloxy-C₁₋₆-alkyl, C₃₋₈ cycloalkyloxy-C₁₋₆-alkyl, C₆₋₁₀ arylamino-C₁₋₆-alkyl, C₂₋₁₀ heterocyclylamino-C₁₋₆-alkyl, C₃₋₈ cycloalkylamino-C₁₋₆-alkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀ heterocyclyl, or C₃₋₈ carbocyclyl; with the proviso that where R⁷ and R^{7a} are bonded to the same nitrogen atom, R⁷ and R^{7a}, together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, a substituted or unsubstituted C₅₋₁₂ spiro or fused bicyclic ring; and

each R⁸ and R^{8a} is independently H, deuterium, hydroxy, cyano, nitro, F, Cl, Br, I, C₁₋₆ alkyl, C₁₋₆ heteroalkyl, C₃₋₁₀ cycloalkyl, C₂₋₁₀ heterocyclyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₆ alkoxy, C₁₋₆ alkyl-OC(=O)-, C₁₋₆ alkyl-C(=O)-, carbamoyl, C₁₋₆ alkyl-OS(=O)_r-, C₁₋₆ alkyl-S(=O)_rO-, C₁₋₆ alkyl-S(=O)_r-, or

aminosulfonyl.

6. The compound according to claim 1, wherein each of A and A' is independently a bond, $-\text{CH}_2-$, $-(\text{CH}_2)_2-$, $-\text{CH}=\text{CH}-$, $-\text{CH}=\text{CH}-\text{CH}_2-$, $-\text{N}(\text{R}^6)-$, $-\text{C}(=\text{O})-$, $-\text{C}(=\text{S})-$, $-\text{C}(=\text{O})-\text{O}-$, $-\text{C}(=\text{O})\text{N}(\text{R}^6)-$, $-\text{OC}(=\text{O})\text{N}(\text{R}^6)-$, $-\text{OC}(=\text{O})\text{O}-$, $-\text{N}(\text{R}^6)\text{C}(=\text{O})\text{N}(\text{R}^6)-$, $-(\text{R}^6)\text{N}-\text{S}(=\text{O})_2-$, $-\text{S}(=\text{O})_2-$, $-\text{OS}(=\text{O})_2-$, $-(\text{R}^6)\text{N}-\text{S}(=\text{O})-$, $-\text{S}(=\text{O})-$, $-\text{OS}(=\text{O})-$, or each of A and A' is independently





wherein X^1 is O or S;

each R^6 is independently H, deuterium, C_{1-4} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-4} -alkyl, C_{1-6} alkylamino- C_{1-4} -alkyl, C_{1-6} alkylthio- C_{1-4} -alkyl, C_{6-10} aryl- C_{1-4} -alkyl, C_{1-9} heteroaryl, C_{6-10} aryl, C_{3-9} heterocyclyl or C_{3-8} carbocyclyl;

each R^{6a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, $R^{7a}R^7N-$, C_{1-6} alkoxy, C_{1-6} alkylamino, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, mercapto or nitro; and

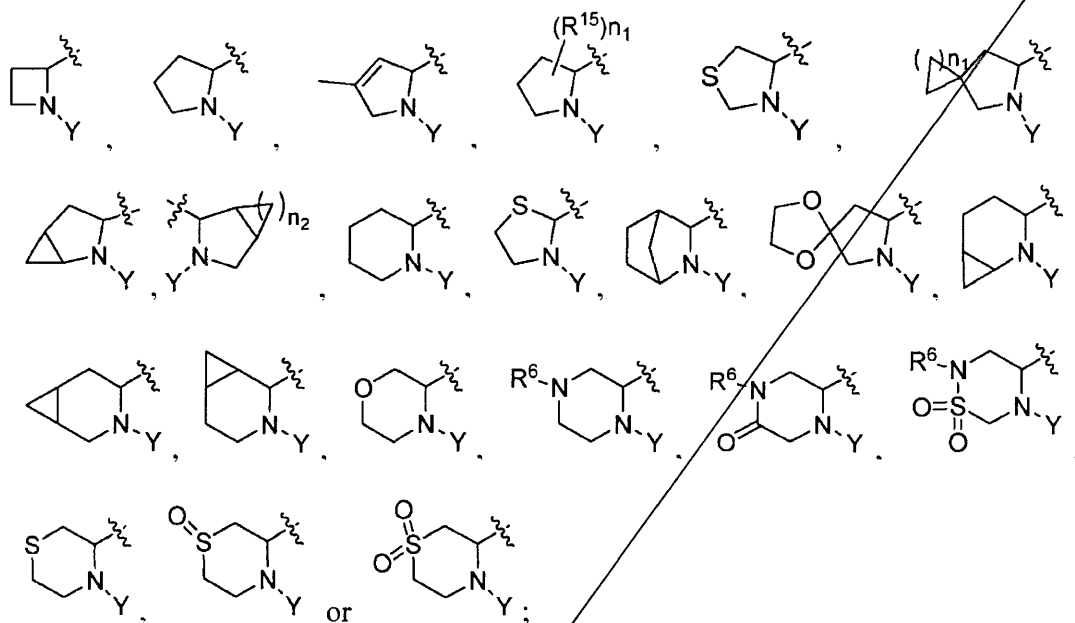
each R^7 and R^{7a} is independently H, deuterium, F, Cl, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{1-6} haloalkyl, hydroxy C_{1-6} alkyl, amino C_{1-6} alkyl, C_{1-6} alkoxy- C_{1-6} -alkyl, C_{1-6} alkylamino- C_{1-6} -alkyl, or C_{1-6} alkylthio- C_{1-6} -alkyl.

7. The compound according to claim 1, wherein each of R^1 , R^2 , R^3 and R^4 is independently H, deuterium, C_{1-8} alkyl, C_{1-8} heteroalkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{1-9} heteroaryl or C_{6-10} aryl; or R^1 and R^2 , together with X-CH which they are attached to, optionally form a 3-8 membered heterocycle or carbocycle, C_{5-12} fused bicycle, C_{5-12} fused heterobicycle, C_{5-12} spiro bicycle or C_{5-12} spiro heterobicycle; or R^3 and R^4 , together with X'-CH which they are attached to, optionally form a 3-8 membered heterocycle or carbocycle, C_{5-12} fused bicycle, C_{5-12} fused heterobicycle, C_{5-12} spiro bicycle or C_{5-12} spiro heterobicycle.

8. The compound according to claim 7, wherein R^1 and R^2 , together with X-CH which they are attached to, or R^3 and R^4 , together with X'-CH which they are attached

to, optionally form a 3-8 membered heterocycle, C₅₋₁₂ fused bicycle, C₅₋₁₂ fused heterobicycle, C₅₋₁₂ spiro bicycle or C₅₋₁₂ spiro heterobicycle.

9. The compound according to claim 7, wherein the R¹, R² and X-CH together form one of the following monovalent groups:

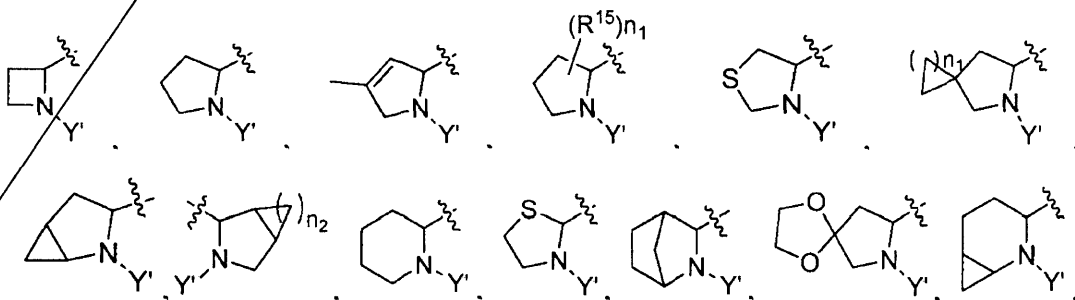


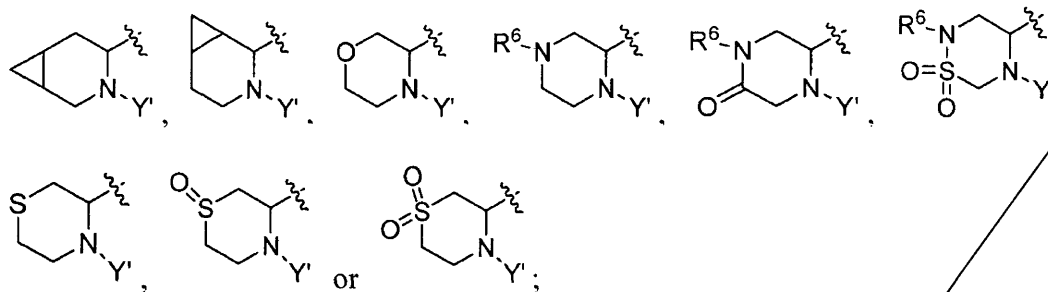
wherein each R¹⁵ is independently H, deuterium, F, Cl, Br, I, cyano, hydroxy, C₁₋₃ alkyl, C₁₋₃ haloalkyl, C₁₋₃ alkoxy, C₁₋₃ alkylamino, C₁₋₃ alkylthio, C₆₋₁₀ arylamino, C₆₋₁₀ aryloxy, C₁₋₉ heteroaryl, C₁₋₉ heteroaryloxy, C₁₋₉ heteroaryl-C₁₋₃-alkyl, or C₂₋₁₀ heterocyclyl;

each R⁶ is independently H, deuterium, C₁₋₄ alkyl, C₁₋₆ haloalkyl, C₁₋₆ hydroxyalkyl, C₁₋₆ aminoalkyl, C₁₋₆ alkoxy-C₁₋₄-alkyl, C₁₋₆ alkylamino-C₁₋₄-alkyl, C₁₋₆ alkylthio-C₁₋₄-alkyl, C₆₋₁₀ aryl-C₁₋₄-alkyl, C₁₋₉ heteroaryl, C₆₋₁₀ aryl, C₃₋₉ heterocyclyl or C₃₋₈ carbocyclyl; and

each n_1 and n_2 is independently 1, 2, 3 or 4.

10. The compound according to claim 7, wherein the R³, R⁴ and X'-CH together form one of the following monovalent groups:



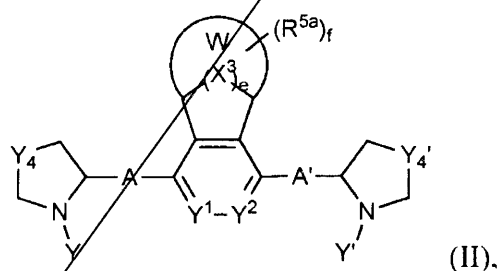


wherein each R^{15} is independently H, deuterium, F, Cl, Br, I, cyano, hydroxy, C_{1-3} alkyl, C_{1-3} haloalkyl, C_{1-3} alkoxy, C_{1-3} alkylamino, C_{1-3} alkylthio, C_{6-10} arylamino, C_{6-10} aryloxy, C_{1-9} heteroaryl, C_{1-9} heteroaryloxy, C_{1-9} heteroaryl- C_{1-3} -alkyl, or C_{2-10} heterocyclyl;

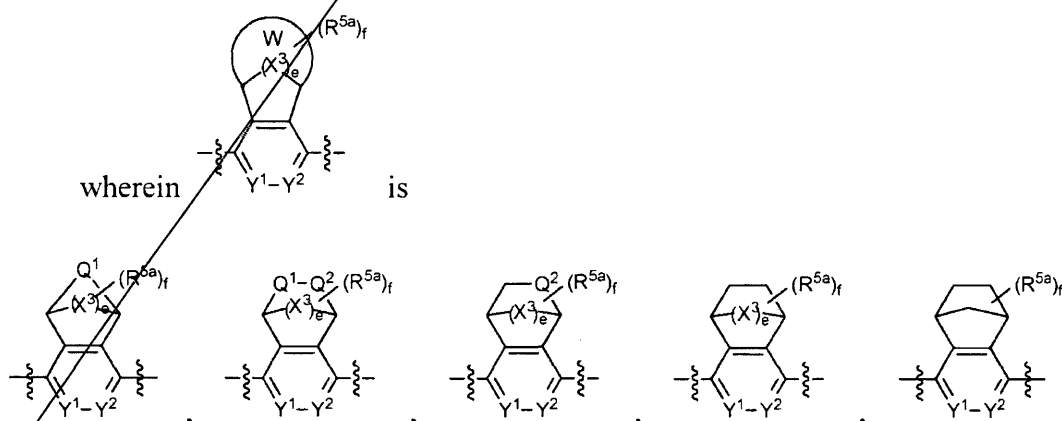
each R^6 is independently H, deuterium, C_{1-4} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-4} -alkyl, C_{1-6} alkylamino- C_{1-4} -alkyl, C_{1-6} alkylthio- C_{1-4} -alkyl, C_{6-10} aryl- C_{1-4} -alkyl, C_{1-9} heteroaryl, C_{6-10} aryl, C_{2-10} heterocyclyl or C_{3-8} carbocyclyl; and

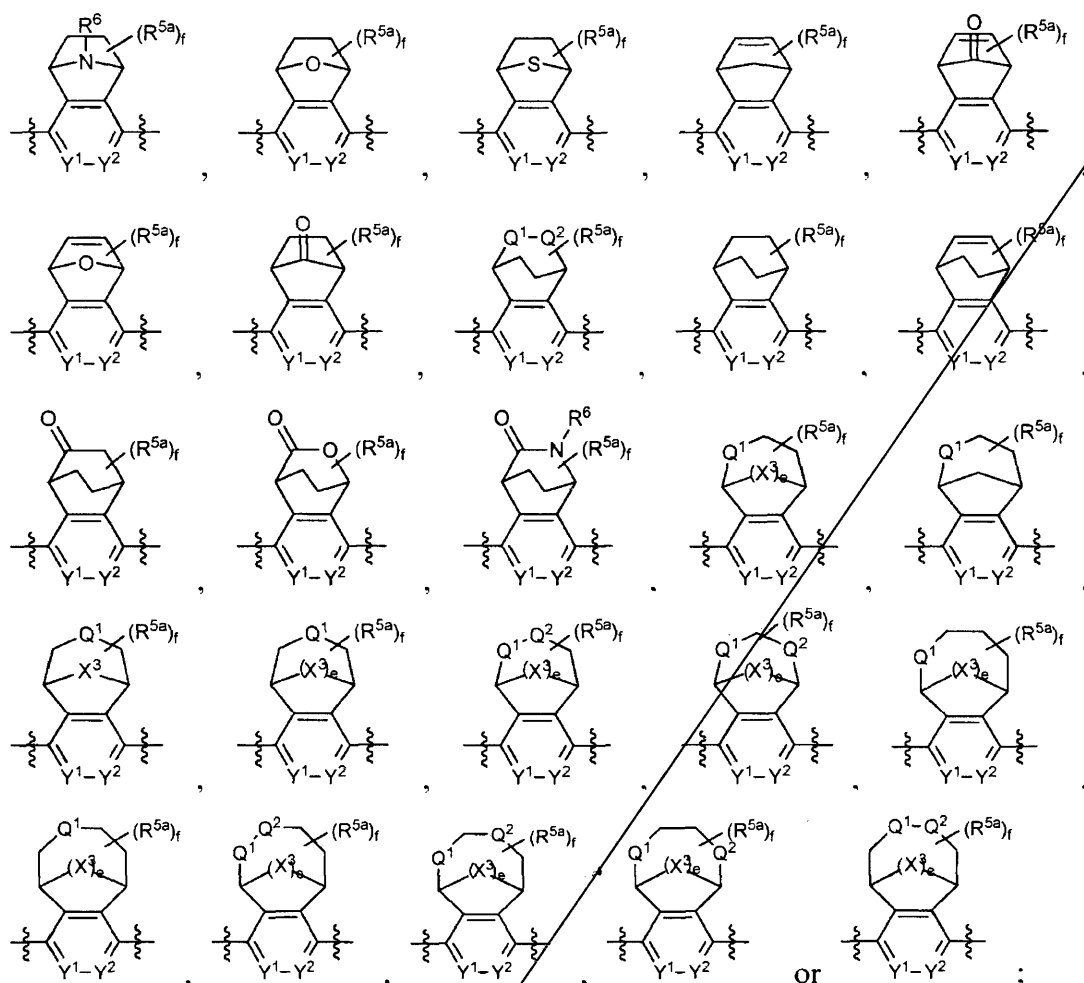
each n_1 and n_2 is independently 1, 2, 3 or 4.

11. The compound according to claim 1 having Formula (II):



wherein





wherein each Q^1 and Q^2 is independently NR^6 , O, S, $C(=O)$ or CH_2 ;

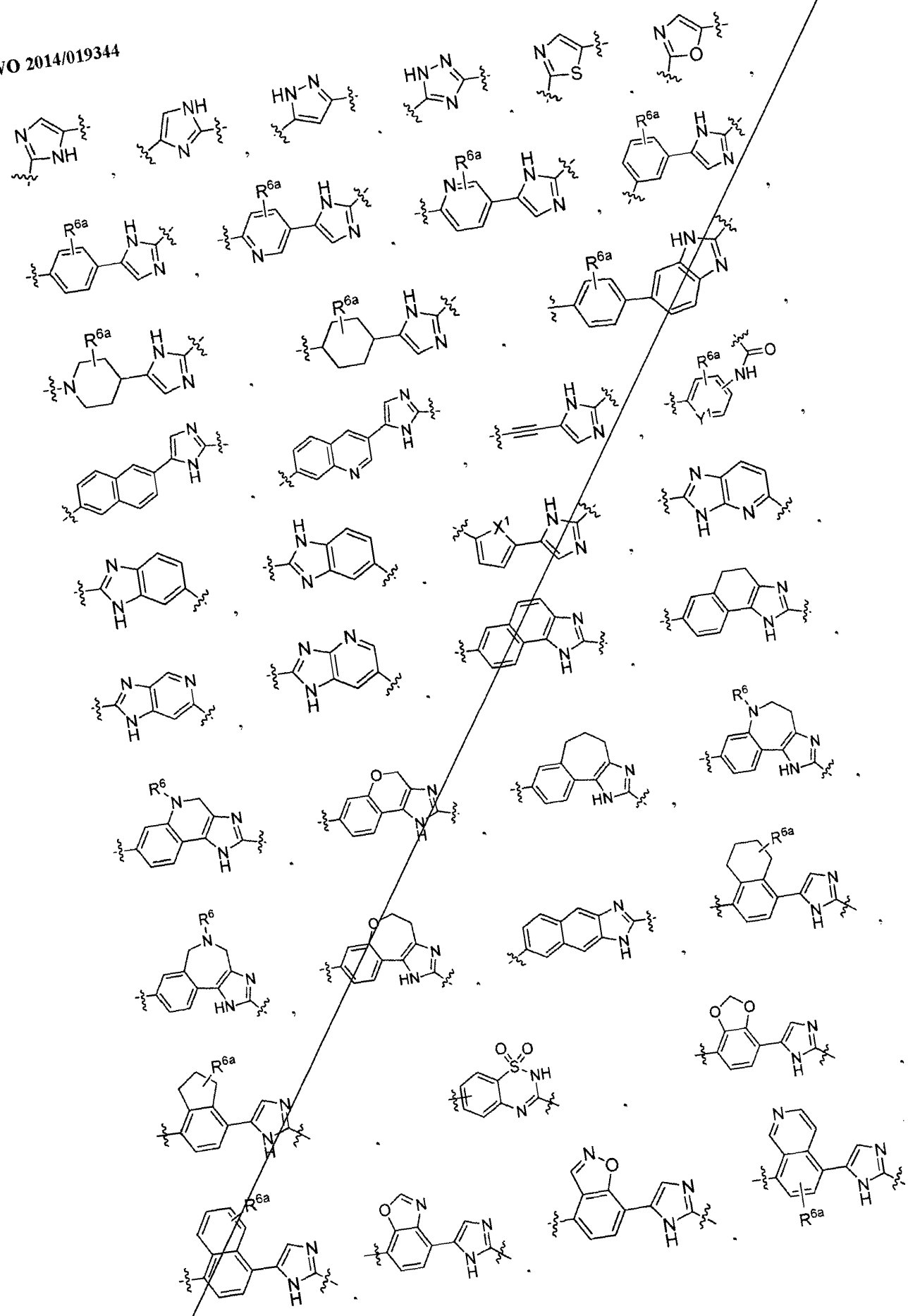
each X^3 is independently O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ;

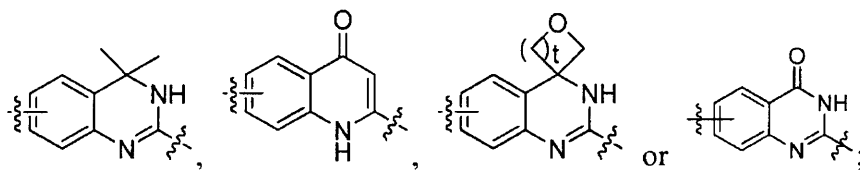
each e is independently 0, 1, 2, 3 or 4 with the proviso that where X^3 is O, S or NR^6 , e is 1;

each Y^1 and Y^2 is independently N or CR^7 ;

each f is independently 0, 1, 2, 3 or 4;

each of A and A' is independently a bond, C_{1-6} alkyl, C_{2-6} alkenyl, C_{3-8} cycloalkyl, C_{2-10} heterocycloalkyl, $-(CR^8R^{8a})_n-O-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-S(=O)_r-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-C(=O)-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-C(=O)-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-C(=O)-O-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-S(=O)_r-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-C(=O)-O-(CR^8R^{8a})_p-$, or each of A and A' is independently





each R^5 is independently H, deuterium, hydroxy, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-6} alkoxy, C_{1-6} alkyl-OC(=O)-, C_{1-6} alkyl-C(=O)-, carbamoyl, C_{1-6} alkyl-OS(=O)_r-, C_{1-6} alkyl-S(=O)_rO-, C_{1-6} alkyl-S(=O)_r- or aminosulfonyl;

each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-6} alkylacyl, C_{1-6} alkylacyloxy, C_{1-6} alkoxyacyl, C_{1-6} alkylsulfonyl, C_{1-6} alkoxy sulfonyl, C_{1-6} alkylsulfinyl, C_{1-6} alkylsulfonyloxy, C_{1-6} alkylsulfinyloxy, C_{1-6} alkoxy, C_{1-6} alkyl, C_{6-10} aryl, -CF₃, -OCF₃, mercapto, nitro, C_{1-6} alkylamino, C_{3-10} cycloalkyl or C_{6-10} aryloxy;

each R^6 is independently H, deuterium, $R^7R^{7a}NC(=O)-$, $R^7OC(=O)-$, $R^7C(=O)-$, $R^7R^{7a}NS(=O)-$, $R^7OS(=O)-$, $R^7S(=O)-$, $R^7R^{7a}NS(=O)_2-$, $R^7OS(=O)_2-$, $R^7S(=O)_2-$, C_{1-6} aliphatic, C_{1-6} alkoxy- C_{1-6} -aliphatic, C_{1-6} alkylamino- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl, C_{3-10} cycloalkyl- C_{1-6} -alkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl or C_{3-10} carbocyclyl;

each R^{6a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-6} alkylacyl, C_{1-6} alkylacyloxy, C_{1-6} alkoxyacyl, C_{1-6} alkylsulfonyl, C_{1-6} alkoxy sulfonyl, C_{1-6} alkylsulfinyl, C_{1-6} alkylsulfonyloxy, C_{1-6} alkylsulfinyloxy, C_{1-6} alkoxy, C_{1-6} alkyl, C_{6-10} aryl, -CF₃, -OCF₃, mercapto, nitro, C_{1-6} alkylamino, C_{3-10} cycloalkyl or C_{6-10} aryloxy;

each R^7 and R^{7a} is independently H, deuterium, C_{1-6} aliphatic, C_{1-6} heteroalkyl, C_{1-6} alkoxy- C_{1-6} -aliphatic, C_{1-6} alkylamino- C_{1-6} -aliphatic, C_{6-10} aryl- C_{1-6} -aliphatic, C_{2-10} heterocyclyl- C_{1-6} -aliphatic, C_{3-10} -cycloalkyl- C_{1-6} -aliphatic, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl or C_{3-10} carbocyclyl; with the proviso that where R^7 and R^{7a} are bonded to the same nitrogen atom, R^7 and R^{7a} , together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, or a substituted or unsubstituted spiro or fused bicyclic ring;

each R^8 and R^{8a} is independently H, deuterium, hydroxy, cyano, nitro, F, Cl, Br, I, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-10} heteroaryl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-6} alkoxy, C_{1-6} alkyl-OC(=O)-, C_{1-6} alkyl-C(=O)-, carbamoyl, C_{1-6} alkyl-OS(=O)_r-, C_{1-6} alkyl-S(=O)_rO-, C_{1-6} alkyl-S(=O)_r- or aminosulfonyl;

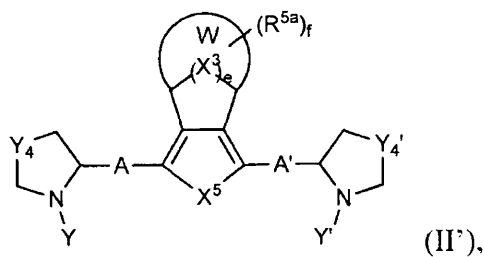
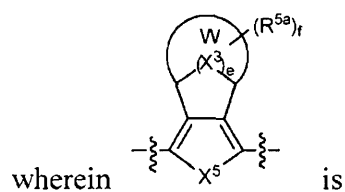
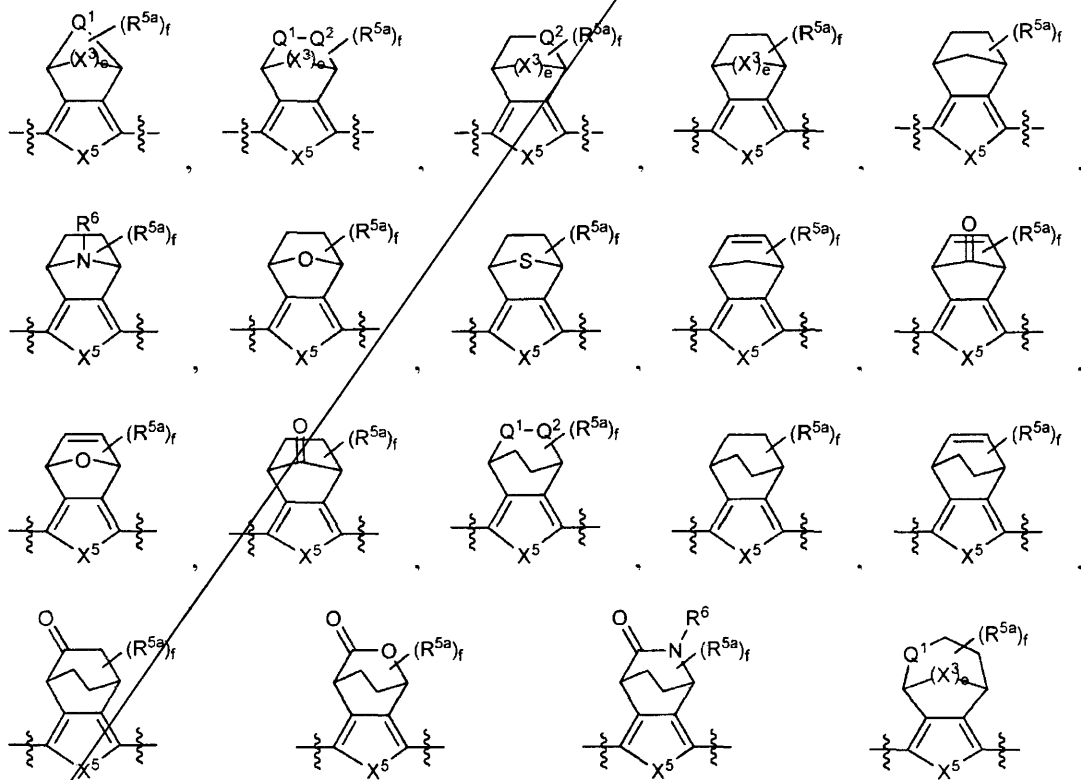
each of Y_4 and Y_4' is independently a bond, O, S, -(CH₂)_n-, -CH=CH-, -S(=O)_r-, -CH₂O-, -CH₂S-, -CH₂S(=O)_r-, -CF₂-, -CHR^{5a}- or -CH₂N(R⁶)-

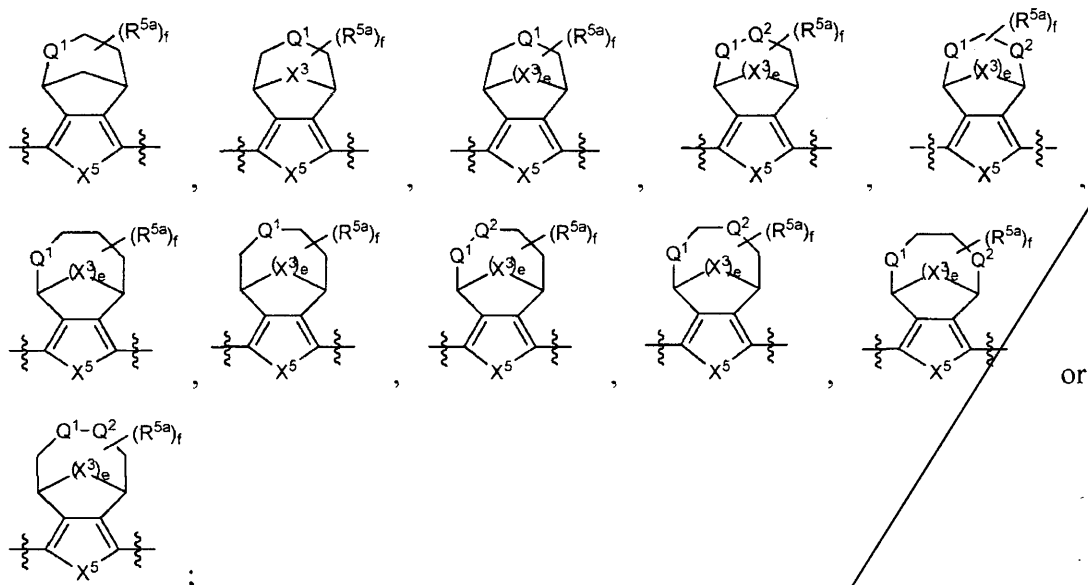
each n is independently 0, 1, 2 or 3;

each p is independently 0, 1, 2 or 3; and

each r is independently 0, 1 or 2.

12. The compound according to claim 1 having Formula (II'):





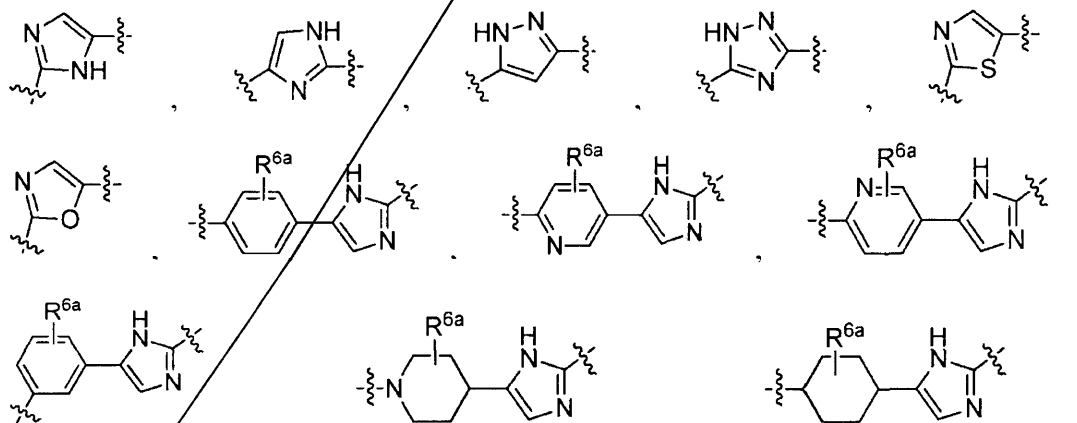
wherein each Q^1 and Q^2 is independently NR^6 , O, S, $C(=O)$ or CH_2 ;

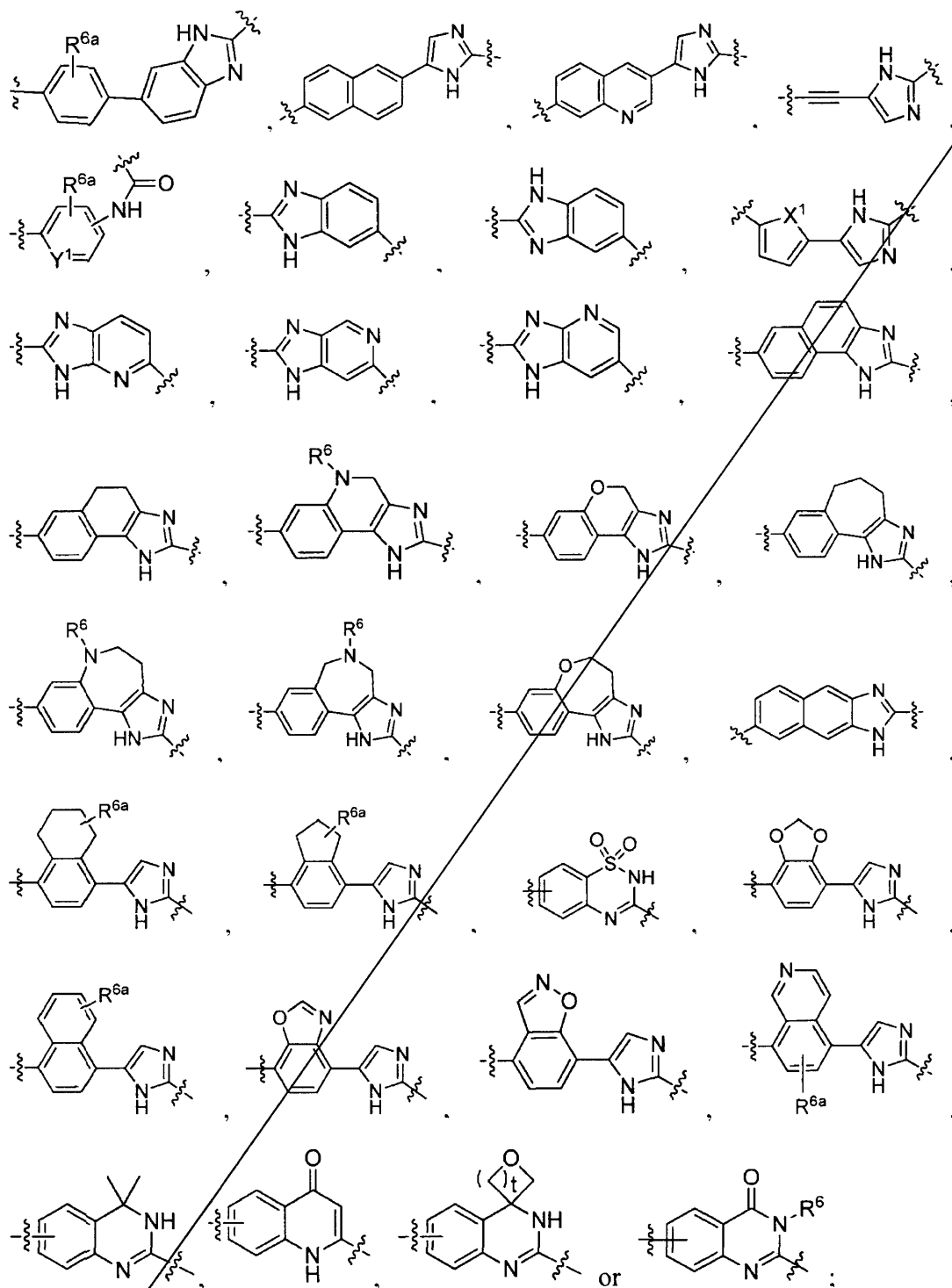
each X^3 is independently O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ; e is 0, 1, 2, 3 or 4 with the proviso that where X^3 is O, S or NR^6 , e is 1;

each X^5 is independently CR^7R^{7a} , O, S or NR^6 ;

each f is independently 0, 1, 2, 3 or 4;

each of A and A' is independently a bond, C_{1-6} alkyl, C_{2-6} alkenyl, C_{3-8} cycloalkyl, C_{2-10} heterocycloalkyl, $-(CR^8R^{8a})_n-O-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-S(=O)_r-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-C(=O)-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-C(=O)-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-C(=O)-O-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-S(=O)_r-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-C(=O)-O-(CR^8R^{8a})_p-$, or each of A and A' is independently





each R^5 is independently H, deuterium, hydroxy, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-6} alkoxy, C_{1-6} alkyl-OC(=O)-, C_{1-6} alkyl-C(=O)-, carbamoyl, C_{1-6} alkyl-OS(=O)-, C_{1-6} alkyl-S(=O)-, C_{1-6} alkyl-S(=O)-, or aminosulfonyl;

each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-6} alkylacyl, C_{1-6} alkylacyloxy, C_{1-6} alkoxyacyl, C_{1-6} alkylsulfonyl, C_{1-6}

alkoxysulfonyl, C₁₋₆ alkylsulfinyl, C₁₋₆ alkylsulfonyloxy, C₁₋₆ alkylsulfinyloxy, C₁₋₆ alkoxy, C₁₋₆ alkyl, C₆₋₁₀ aryl, -CF₃, -OCF₃, mercapto, nitro, C₁₋₆ alkylamino, C₃₋₁₀ cycloalkyl or C₆₋₁₀ aryloxy;

each R⁶ is independently H, deuterium, R⁷R^{7a}NC(=O)-, R⁷OC(=O)-, R⁷C(=O)-, R⁷R^{7a}NS(=O)-, R⁷OS(=O)-, R⁷S(=O)-, R⁷R^{7a}NS(=O)₂-, R⁷OS(=O)₂-, R⁷S(=O)₂-, C₁₋₆ alkyl, C₁₋₆ alkoxy-C₁₋₆-alkyl, C₁₋₆ alkylamino-C₁₋₆-alkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₉ heteroaryl-C₁₋₆-alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl, C₃₋₁₀ cycloalkyl-C₁₋₆-alkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀ heterocyclyl or C₃₋₁₀ carbocyclyl;

each R^{6a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C₁₋₆ alkylacyl, C₁₋₆ alkylacyloxy, C₁₋₆ alkoxyacyl, C₁₋₆ alkylsulfonyl, C₁₋₆ alkoxysulfonyl, C₁₋₆ alkylsulfinyl, C₁₋₆ alkylsulfonyloxy, C₁₋₆ alkylsulfinyloxy, C₁₋₆ alkoxy, C₁₋₆ alkyl, C₆₋₁₀ aryl, -CF₃, -OCF₃, mercapto, nitro, C₁₋₆ alkylamino, C₃₋₁₀ cycloalkyl or C₆₋₁₀ aryloxy;

each R⁷ and R^{7a} is independently H, deuterium, C₁₋₆ alkyl, C₁₋₆ heteroalkyl, C₁₋₆ alkoxy-C₁₋₆-alkyl, C₁₋₆ alkylamino-C₁₋₆-alkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl, C₃₋₁₀ cycloalkyl-C₁₋₆-alkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀ heterocyclyl or C₃₋₁₀ carbocyclyl; with the proviso that where R⁷ and R^{7a} are bonded to the same nitrogen atom, R⁷ and R^{7a}, together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, a substituted or unsubstituted spiro or fused bicyclic ring;

each R⁸ and R^{8a} is independently H, deuterium, hydroxy, cyano, nitro, F, Cl, Br, I, C₁₋₆ alkyl, C₁₋₆ heteroalkyl, C₃₋₁₀ cycloalkyl, C₂₋₁₀ heterocyclyl, C₆₋₁₀ aryl, C₁₋₁₀ heteroaryl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₆ alkoxy, C₁₋₆ alkyl-OC(=O)-, C₁₋₆ alkyl-C(=O)-, carbamoyl, C₁₋₆ alkyl-OS(=O)_r-, C₁₋₆ alkyl-S(=O)_rO-, C₁₋₆ alkyl-S(=O)_r- or aminosulfonyl;

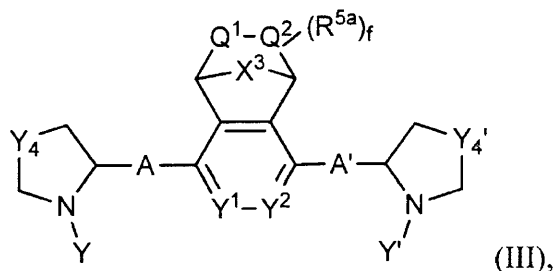
each of Y₄ and Y₄' is independently a bond, O, S, -(CH₂)_n-, -CH=CH-, -S(=O)_r-, -CH₂O-, -CH₂S-, -CH₂S(=O)_r-, -CF₂-, -CHR^{5a}- or -CH₂N(R⁶)-

each n is independently 0, 1, 2 or 3;

each p is independently 0, 1, 2 or 3; and

each r is independently 0, 1 or 2.

13. The compound according to claim 11 having Formula (III):



wherein each Q^1 and Q^2 is independently O, S, C(=O), NR^6 or CH_2 ;

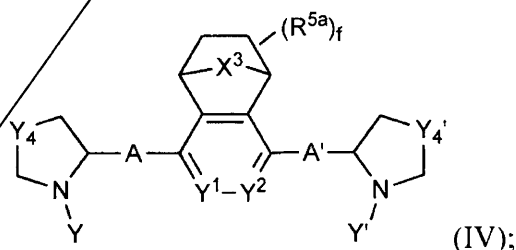
X^3 is O, S, NR^6 , C(=O) or CR^7R^{7a} ;

each R^6 is independently H, deuterium, $R^7R^{7a}NC(=O)-$, $R^7OC(=O)-$, $R^7C(=O)-$, $R^7R^{7a}NS(=O)-$, $R^7OS(=O)-$, $R^7S(=O)-$, $R^7R^{7a}NS(=O)_2-$, $R^7OS(=O)_2-$, $R^7S(=O)_2-$, C_{1-6} alkyl, C_{1-6} alkoxy- C_{1-6} -alkyl, C_{1-6} alkylamino- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl, C_{3-10} cycloalkyl- C_{1-6} -alkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl or C_{3-10} carbocyclyl;

each R^7 and R^{7a} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{1-6} alkoxy- C_{1-6} -alkyl, C_{1-6} alkylamino- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl, C_{3-10} cycloalkyl- C_{1-6} -alkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl or C_{3-10} carbocyclyl; with the proviso that where R^7 and R^{7a} are bonded to the same nitrogen atom, R^7 and R^{7a} , together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, or a substituted or unsubstituted spiro or fused bicyclic ring; and

f is 0, 1, 2, 3 or 4.

14. The compound according to claim 11 having Formula (IV):



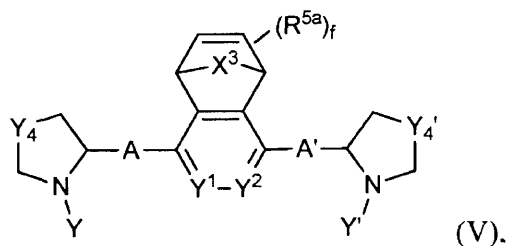
wherein X^3 is O, S, NR^6 , C(=O) or CR^7R^{7a} ;

each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-6} alkylacyl, C_{1-6} alkylacyloxy, C_{1-6} alkoxyacyl, C_{1-6} alkylsulfonyl, C_{1-6} alkoxysulfonyl, C_{1-6} alkylsulfinyl, C_{1-6} alkylsulfonyloxy, C_{1-6} alkylsulfinyloxy, C_{1-6} alkoxy, C_{1-6} alkyl, C_{6-10} aryl, $-CF_3$, $-OCF_3$, mercapto, nitro, C_{1-6} alkylamino, C_{3-10} cycloalkyl or C_{6-10} aryloxy;

f is 0, 1, 2, or 3; and

each R^7 and R^{7a} is independently H, deuterium, C_{1-4} alkyl, C_{1-4} heteroalkyl, C_{1-6} alkoxyalkyl, C_{1-6} alkylaminoalkyl, C_{6-10} aryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{1-9} heteroaryl; with the proviso that where R^7 and R^{7a} are bonded to the same nitrogen atom, R^7 and R^{7a} , together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, a substituted or unsubstituted spiro or fused bicyclic ring.

15. The compound according to claim 11 having Formula (V):



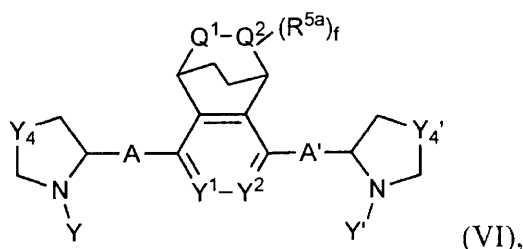
wherein X^3 is O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ;

each R^{5a} is independently H, deuterium, oxo ($=O$), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-4} alkylacyl, C_{1-4} alkylacyloxy, C_{1-4} alkoxyacyl, C_{1-4} alkylsulfonyl, C_{1-4} alkoxysulfonyl, C_{1-4} alkylsulfinyl, C_{1-4} alkylsulfonyloxy, C_{1-4} alkylsulfinyloxy, C_{1-4} alkoxy, C_{1-4} alkyl, C_{6-10} aryl, $-CF_3$, $-OCF_3$, mercapto, nitro, C_{1-6} alkylamino, C_{3-8} cycloalkyl or C_{6-10} aryloxy;

f is 0, 1, 2, or 3; and

each R^7 and R^{7a} is independently H, deuterium, C_{1-4} alkyl, C_{1-4} heteroalkyl, C_{1-6} alkoxyalkyl, C_{1-6} alkylaminoalkyl, C_{6-10} aryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{1-9} heteroaryl; with the proviso that where R^7 and R^{7a} are bonded to the same nitrogen atom, R^7 and R^{7a} , together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, a substituted or unsubstituted spiro or fused bicyclic ring.

16. The compound according to claim 11 having Formula (VI):



wherein each Q^1 and Q^2 is independently O, S, $C(=O)$, NR^6 or CH_2 ;

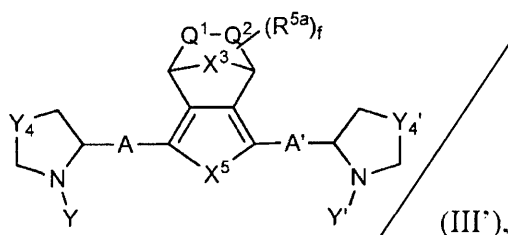
each R^{5a} is independently H, deuterium, oxo ($=O$), hydroxy, amino, F, Cl, Br, I,

cyano, C₁₋₄ alkylacyl, C₁₋₄ alkylacyloxy, C₁₋₄ alkoxyacyl, C₁₋₄ alkylsulfonyl, C₁₋₄ alkoxysulfonyl, C₁₋₄ alkylsulfinyl, C₁₋₄ alkylsulfonyloxy, C₁₋₄ alkylsulfinyloxy, C₁₋₄ alkoxy, C₁₋₄ alkyl, C₆₋₁₀ aryl, -CF₃, -OCF₃, mercapto, nitro, C₁₋₆ alkylamino, C₃₋₈ cycloalkyl or C₆₋₁₀ aryloxy;

each R⁶ is independently H, deuterium, R⁷R^{7a}NC(=O)-, R⁷OC(=O)-, R⁷C(=O)-, R⁷R^{7a}NS(=O)-, R⁷OS(=O)-, R⁷S(=O)-, R⁷R^{7a}NS(=O)₂-, R⁷OS(=O)₂-, R⁷S(=O)₂-, C₁₋₆ alkyl, C₁₋₆ alkoxy-C₁₋₆-alkyl, C₁₋₆ alkylamino-C₁₋₆-alkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₉ heteroaryl-C₁₋₆-alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl, C₃₋₁₀ cycloalkyl-C₁₋₆-alkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀ heterocyclyl or C₃₋₁₀ carbocyclyl; and

f is 0, 1, 2, 3 or 4.

17. The compound according to claim 12 having Formula (III'):



wherein each Q¹ and Q² is independently O, S, C(=O), NR⁶ or CH₂;

X³ is O, S, NR⁶, C(=O) or CR⁷R^{7a};

f is 0, 1, 2 or 3;

X⁵ is CH₂, O, S or NR⁶;

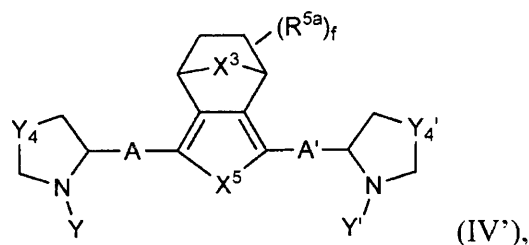
each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C₁₋₄ alkylacyl, C₁₋₄ alkylacyloxy, C₁₋₄ alkoxyacyl, C₁₋₄ alkylsulfonyl, C₁₋₄ alkoxysulfonyl, C₁₋₄ alkylsulfinyl, C₁₋₄ alkylsulfonyloxy, C₁₋₄ alkylsulfinyloxy, C₁₋₄ alkoxy, C₁₋₄ alkyl, C₆₋₁₀ aryl, -CF₃, -OCF₃, mercapto, nitro, C₁₋₆ alkylamino, C₃₋₈ cycloalkyl or C₆₋₁₀ aryloxy;

each R⁶ is independently H, deuterium, R⁷R^{7a}NC(=O)-, R⁷OC(=O)-, R⁷C(=O)-, R⁷R^{7a}NS(=O)-, R⁷OS(=O)-, R⁷S(=O)-, R⁷R^{7a}NS(=O)₂-, R⁷OS(=O)₂-, R⁷S(=O)₂-, C₁₋₆ alkyl, C₁₋₆ alkoxy-C₁₋₆-alkyl, C₁₋₆ alkylamino-C₁₋₆-alkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₉ heteroaryl-C₁₋₆-alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl, C₃₋₁₀ cycloalkyl-C₁₋₆-alkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀ heterocyclyl or C₃₋₁₀ carbocyclyl; and

each R⁷ and R^{7a} is independently H, deuterium, C₁₋₄ alkyl, C₁₋₄ heteroalkyl, C₁₋₆ alkoxyalkyl, C₁₋₆ alkylaminoalkyl, C₆₋₁₀ aryl, C₂₋₁₀ heterocyclyl, C₃₋₈ cycloalkyl, C₁₋₉ heteroaryl; with the proviso that where R⁷ and R^{7a} are bonded to the same nitrogen atom, R⁷ and R^{7a}, together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, a substituted or unsubstituted spiro or

fused bicyclic ring.

18. The compound according to claim 12 having Formula (IV'):



wherein X^5 is CH_2 , O, S or NR^6 ;

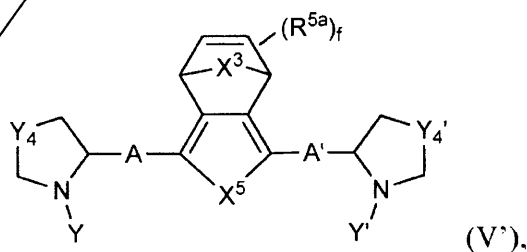
X^3 is O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ;

f is 0, 1, 2 or 3;

each R^{5a} is independently H, deuterium, oxo ($=O$), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-4} alkylacyl, C_{1-4} alkylacyloxy, C_{1-4} alkoxyacyl, C_{1-4} alkylsulfonyl, C_{1-4} alkoxysulfonyl, C_{1-4} alkylsulfinyl, C_{1-4} alkylsulfonyloxy, C_{1-4} alkylsulfinyloxy, C_{1-4} alkoxy, C_{1-4} alkyl, C_{6-10} aryl, $-CF_3$, $-OCF_3$, mercapto, nitro, C_{1-6} alkylamino, C_{3-8} cycloalkyl or C_{6-10} aryloxy; and

each R^7 and R^{7a} is independently H, deuterium, C_{1-4} alkyl, C_{1-4} heteroalkyl, C_{1-6} alkoxyalkyl, C_{1-6} alkylaminoalkyl, C_{6-10} aryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{1-9} heteroaryl; with the proviso that where R^7 and R^{7a} are bonded to the same nitrogen atom, R^7 and R^{7a} , together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, a substituted or unsubstituted spiro or fused bicyclic ring.

19. The compound according to claim 12 having Formula (V'):



wherein X^3 is O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ;

X^5 is CH_2 , O, S or NR^6 ;

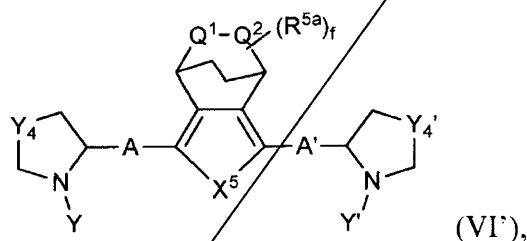
each R^{5a} is independently H, deuterium, oxo ($=O$), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-4} alkylacyl, C_{1-4} alkylacyloxy, C_{1-4} alkoxyacyl, C_{1-4} alkylsulfonyl, C_{1-4}

alkoxysulfonyl, C₁₋₄ alkylsulfinyl, C₁₋₄ alkylsulfonyloxy, C₁₋₄ alkylsulfinyloxy, C₁₋₄ alkoxy, C₁₋₄ alkyl, C₆₋₁₀ aryl, -CF₃, -OCF₃, mercapto, nitro, C₁₋₆ alkylamino, C₃₋₈ cycloalkyl or C₆₋₁₀ aryloxy;

each R⁶ is independently H, deuterium, R⁷R^{7a}NC(=O)-, R⁷OC(=O)-, R⁷C(=O)-, R⁷R^{7a}NS(=O)-, R⁷OS(=O)-, R⁷S(=O)-, R⁷R^{7a}NS(=O)₂-, R⁷OS(=O)₂-, R⁷S(=O)₂-, C₁₋₆ alkyl, C₁₋₆ alkoxy-C₁₋₆-alkyl, C₁₋₆ alkylamino-C₁₋₆-alkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₉ heteroaryl-C₁₋₆-alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl, C₃₋₁₀ cycloalkyl-C₁₋₆-alkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀ heterocyclyl or C₃₋₁₀ carbocyclyl; and

each R⁷ and R^{7a} is independently H, deuterium, C₁₋₄ alkyl, C₁₋₄ heteroalkyl, C₁₋₆ alkoxyalkyl, C₁₋₆ alkylaminoalkyl, C₆₋₁₀ aryl, C₂₋₁₀ heterocyclyl, C₃₋₈ cycloalkyl, C₁₋₉ heteroaryl; with the proviso that where R⁷ and R^{7a} are bonded to the same nitrogen atom, R⁷ and R^{7a}, together with the nitrogen atom they are attached to, optionally form a substituted or unsubstituted 3-8 membered ring, a substituted or unsubstituted spiro or fused bicyclic ring.

20. The compound according to claim 12 having Formula (VI'):



wherein each Q¹ and Q² is independently O, S, C(=O), NR⁶ or CH₂;

f is 0, 1, 2 or 3;

X⁵ is CH₂, O, S or NR⁶;

each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C₁₋₄ alkylacyl, C₁₋₄ alkylacyloxy, C₁₋₄ alkoxyacyl, C₁₋₄ alkylsulfonyl, C₁₋₄ alkoxysulfonyl, C₁₋₄ alkylsulfinyl, C₁₋₄ alkylsulfonyloxy, C₁₋₄ alkylsulfinyloxy, C₁₋₄ alkoxy, C₁₋₄ alkyl, C₆₋₁₀ aryl, -CF₃, -OCF₃, mercapto, nitro, C₁₋₆ alkylamino, C₃₋₈ cycloalkyl or C₆₋₁₀ aryloxy; and

each R⁶ is independently H, deuterium, R⁷R^{7a}NC(=O)-, R⁷OC(=O)-, R⁷C(=O)-, R⁷R^{7a}NS(=O)-, R⁷OS(=O)-, R⁷S(=O)-, R⁷R^{7a}NS(=O)₂-, R⁷OS(=O)₂-, R⁷S(=O)₂-, C₁₋₆ alkyl, C₁₋₆ alkoxy-C₁₋₆-alkyl, C₁₋₆ alkylamino-C₁₋₆-alkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₉ heteroaryl-C₁₋₆-alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl, C₃₋₁₀ cycloalkyl-C₁₋₆-alkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀ heterocyclyl or C₃₋₁₀ carbocyclyl.

21. The compound according to claim 1, wherein each of Y and Y' is independently a group derived from α-amino acid and the group derived from

α -amino acid is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, I, hydroxy or cyano.

22. The compound according to claim 21, wherein the group derived from α -amino acid is formed by isoleucine, leucine, lysine, methionine, phenylalanine, threonine, tryptophane, valine, alanine, asparagine, aspartic acid, glutamic acid, glutamine, proline, serine, p-tyrosine, arginine, histidine, cysteine, glycine, sarcosine, N,N-dimethylglycine, homoserine, norvaline, norleucine, ornithine, homocysteine, homophenylalanine, phenylglycine, o-tyrosine, m-tyrosine or hydroxyproline.

23. The compound according to claim 22, wherein the α -amino acid is in the D configuration.

24. The compound according to claim 22, wherein the α -amino acid is in the L configuration.

25. The compound according to any one of claims 1 to 22, wherein each of Y and Y' is independently $-[U-(CR^9R^{9a})_i-N(R^{10})-(CR^9R^{9a})_i]_k-U-(CR^9R^{9a})_i-N(R^{11})-(CR^9R^{9a})_i-R^{12}$, $-U-(CR^9R^{9a})_i-R^{12}$ or $-[U-(CR^9R^{9a})_i-N(R^{10})-(CR^9R^{9a})_i]_k-U-(CR^9R^{9a})_i-O-(CR^9R^{9a})_i-R^{12}$.

26. The compound according to claim 25, wherein each of Y and Y' is independently $-[U-(CR^9R^{9a})_i-N(R^{10})-(CR^9R^{9a})_i]_k-U-(CR^9R^{9a})_i-N(R^{11})-(CR^9R^{9a})_i-R^{12}$.

27. The compound according to claim 26, wherein each of Y and Y' is independently $-U-(CR^9R^{9a})_i-N(R^{10})-(CR^9R^{9a})_i-U-(CR^9R^{9a})_i-N(R^{11})-(CR^9R^{9a})_i-R^{12}$.

28. The compound according to claim 26, wherein each of Y and Y' is independently $-U-(CR^9R^{9a})_i-N(R^{11})-(CR^9R^{9a})_i-R^{12}$.

29. The compound according to claim 25, wherein each of Y and Y' is independently $-[C(=O)-(CR^9R^{9a})_i-N(R^{10})-(CR^9R^{9a})_i]_k-U-(CR^9R^{9a})_i-N(R^{11})-(CR^9R^{9a})_i-R^{12}$.

30. The compound according to claim 29, wherein each of Y and Y' is independently $-C(=O)-(CR^9R^{9a})_i-N(R^{10})-(CR^9R^{9a})_i-U-(CR^9R^{9a})_i-N(R^{11})-(CR^9R^{9a})_i-R^{12}$.

31. The compound according to claim 29, wherein each of Y and Y' is independently $-[C(=O)-(CR^9R^{9a})_i-N(R^{10})-(CR^9R^{9a})_i]_k-C(=O)-(CR^9R^{9a})_i-N(R^{11})-(CR^9R^{9a})_i-R^{12}$.

32. The compound according to claim 31, wherein each of Y and Y' is independently $-C(=O)-(CR^9R^{9a})_i-N(R^{10})-(CR^9R^{9a})_i-C(=O)-(CR^9R^{9a})_i-N(R^{11})-(CR^9R^{9a})_i-R^{12}$.

33. The compound according to claim 29, wherein each of Y and Y' is

independently $-C(=O)-(CR^{9a})_t-N(R^{11})-(CR^{9a})_t-R^{12}$.

34. The compound according to claim 33, wherein each of Y and Y' is independently $-C(=O)-(CR^{9a})_n-N(R^{11})-(CR^{9a})_n-C(=O)-R^{13}$.

35. The compound according to claim 34, wherein each of Y and Y' is independently $-C(=O)-(CR^{9a})_n-N(R^{11})-C(=O)-R^{13}$.

36. The compound according to claim 33, wherein each of Y and Y' is independently $-C(=O)-(CR^{9a})_n-N(R^{11})-(CR^{9a})_n-C(=O)-O-R^{13}$.

37. The compound according to claim 36, wherein each of Y and Y' is independently $-C(=O)-(CR^{9a})_n-N(R^{11})-C(=O)-O-R^{13}$.

38. The compound according to claim 25, wherein each of Y and Y' is independently $-U-(CR^{9a})_t-R^{12}$.

39. The compound according to claim 38, wherein each of Y and Y' is independently $-C(=O)-(CR^{9a})_t-R^{12}$.

40. The compound according to claim 25, wherein each of Y and Y' is independently $-[U-(CR^{9a})_t-N(R^{10})-(CR^{9a})_t]_k-U-(CR^{9a})_t-O-(CR^{9a})_t-R^{12}$.

41. The compound according to claim 40, wherein each of Y and Y' is independently $-U-(CR^{9a})_t-N(R^{10})-(CR^{9a})_t-U-(CR^{9a})_t-O-(CR^{9a})_t-R^{12}$.

42. The compound according to claim 41, wherein each of Y and Y' is independently $-C(=O)-(CR^{9a})_t-N(R^{10})-(CR^{9a})_t-C(=O)-(CR^{9a})_t-O-(CR^{9a})_t-R^{12}$.

43. The compound according to claim 40, wherein each of Y and Y' is independently $-U-(CR^{9a})_t-O-(CR^{9a})_t-R^{12}$.

44. The compound according to claim 43, wherein each of Y and Y' is independently $-C(=O)-(CR^{9a})_t-O-(CR^{9a})_t-R^{12}$.

45. The compound according to claim 25, wherein each of Y and Y' is independently $-C(=O)-(CR^{9a})_n-N(R^{11})-R^{12}$, wherein R^{11} and R^{12} , together with the nitrogen atom they are attached to, form a 4-7 membered ring.

46. The compound according to claim 25, wherein each R^9 , R^{9a} , R^{10} and R^{11} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl, or C_{3-8} cycloalkyl- C_{1-6} -alkyl;

each R^{12} is independently $R^{13a}R^{13}N-$, $-C(=O)R^{13}$, $-C(=S)R^{13}$, $-C(=O)-O-R^{13}$, $-C(=O)NR^{13}R^{13a}$, $-OC(=O)NR^{13}R^{13a}$, $-OC(=O)OR^{13}$, $-N(R^{13})C(=O)NR^{13}R^{13a}$, $-N(R^{13})C(=O)OR^{13a}$, $-N(R^{13})C(=O)-R^{13a}$, $R^{13}R^{13a}N-S(=O)_2-$, $R^{13}S(=O)_2-$.

$R^{13}S(=O)_2N(R^{13a})-$, $R^{13}OS(=O)_2-$, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, or C_{6-10} aryl- C_{1-6} -alkyl; or R^{11} and R^{12} , together with the nitrogen atom they are attached to, form a 4-7 membered ring; and

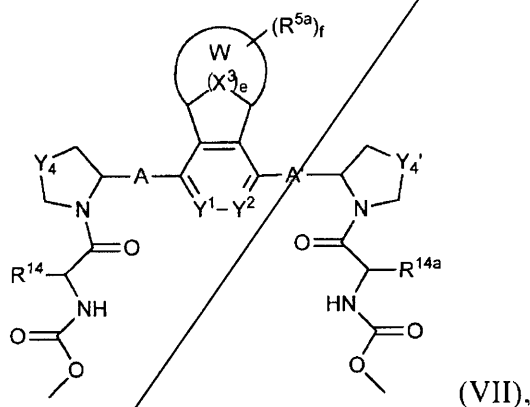
each R^{13} and R^{13a} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, or C_{6-10} aryl- C_{1-6} -alkyl.

47. The compound according to claim 46, wherein each R^9 , R^{9a} , R^{10} and R^{11} is independently H, deuterium, methyl, ethyl, isopropyl, cyclohexyl, isobutyl or phenyl;

each R^{12} is independently $-C(=O)R^{13}$, $-C(=O)-O-R^{13}$, $-C(=O)NR^{13}R^{13a}$, methyl, ethyl, propyl, phenyl, cyclohexyl, morpholinyl or piperidinyl, or R^{11} and R^{12} , together with the nitrogen atom they are attached to, form a 4-7 membered ring; and

each R^{13} and R^{13a} is independently H, deuterium, methyl, ethyl, propyl, phenyl, cyclohexyl, morpholinyl or piperidinyl.

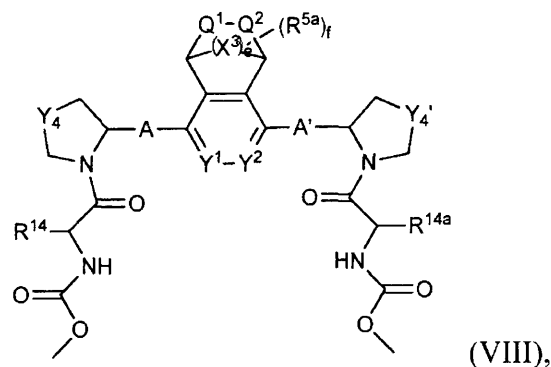
48. The compound according to claim 11 having Formula (VII):



wherein each of R^{14} and R^{14a} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} heteroalkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl, or C_{3-8} cycloalkyl- C_{1-6} -alkyl;

wherein each of C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} heteroalkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl and C_{3-8} cycloalkyl- C_{1-6} -alkyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano.

49. The compound according to claim 48 having Formula (VIII):



wherein each of R^{14} and R^{14a} is independently H, deuterium, C_{1-3} hydroxyalkyl, methyl, ethyl, isopropyl, isobutyl, *tert*-butyl, allyl, propargyl, trifluoroethyl, phenyl, pyranyl, morpholinyl, $-NR^7R^{7a}$, benzyl, piperazinyl, cyclopentyl, cyclopropyl, cyclohexyl, or C_{1-9} heteroaryl; wherein each of methyl, ethyl, isopropyl, isobutyl, *tert*-butyl, allyl, propargyl, trifluoroethyl, phenyl, pyranyl, morpholinyl, $-NR^7R^{7a}$, benzyl, piperazinyl, cyclopentyl, cyclopropyl and cyclohexyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano;

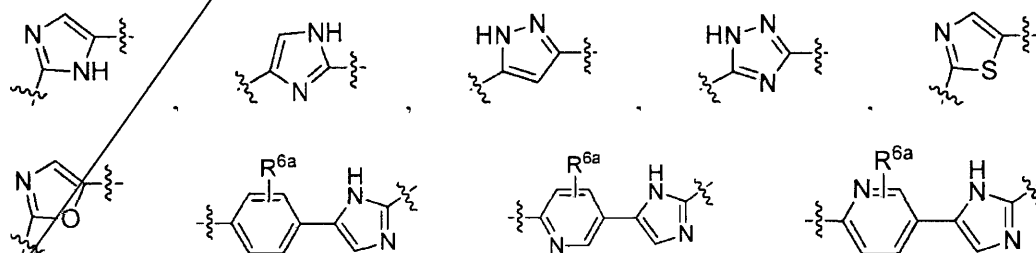
each Q^1 and Q^2 is independently NR^6 , O, S, $C(=O)$ or CH_2 ;

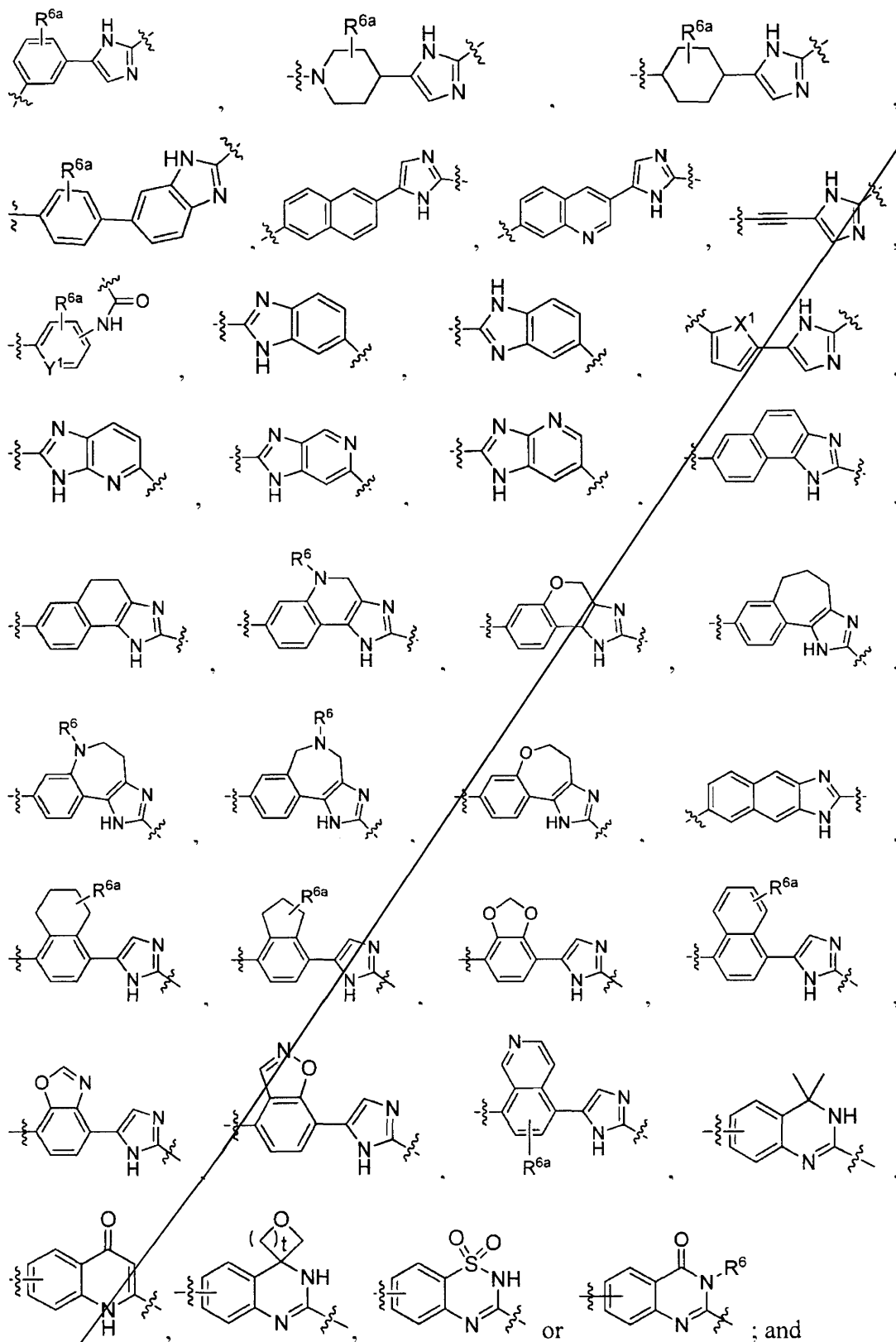
each Y^1 and Y^2 is independently N or CR^7 ;

each X^3 is independently O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ; e is 0, 1, 2, or 3 with the proviso that where X^3 is O, S, $C(=O)$ or NR^6 , e is 1;

f is 0, 1, 2, 3 or 4;

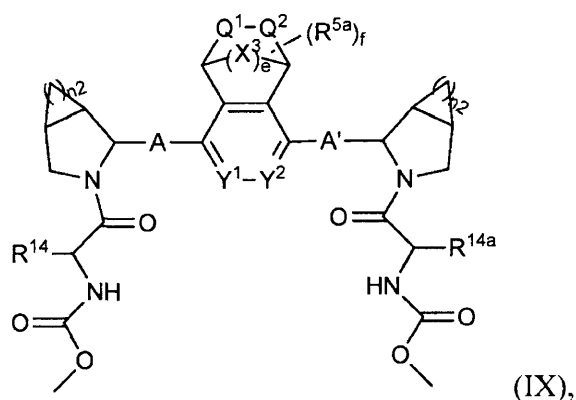
each of A and A' is independently a bond, C_{1-6} alkyl, C_{2-6} alkenyl, C_{3-8} cycloalkyl, C_{2-10} heterocycloalkyl, $-(CR^8R^{8a})_n-O-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-S(=O)_t-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-C(=O)-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-C(=O)-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-C(=O)-O-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-S(=O)_t-N(R^5)-(CR^8R^{8a})_p-$, $-(CR^8R^{8a})_n-N(R^5)-C(=O)-O-(CR^8R^{8a})_p-$, or each of A and A' is independently





each of Y₄ and Y₄' is independently a bond, O, S, -(CH₂)_n-, -CH=CH-, -S(=O)_r-, -CH₂O-, -CH₂S-, -CH₂S(=O)_r-, -CF₂-, -CHR^{5a}- or -CH₂N(R⁶)-.

50. The compound according to claim 1 having Formula (IX):

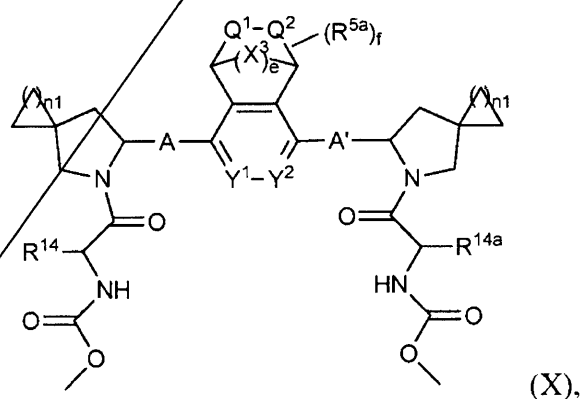


wherein each of R^{14} and R^{14a} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} heteroalkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl or C_{3-8} cycloalkyl- C_{1-6} -alkyl; and

each n_2 is independently 1, 2, 3 or 4;

wherein each of C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} heteroalkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl and C_{3-8} cycloalkyl- C_{1-6} -alkyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano.

51. The compound according to claim 1 having Formula (X):

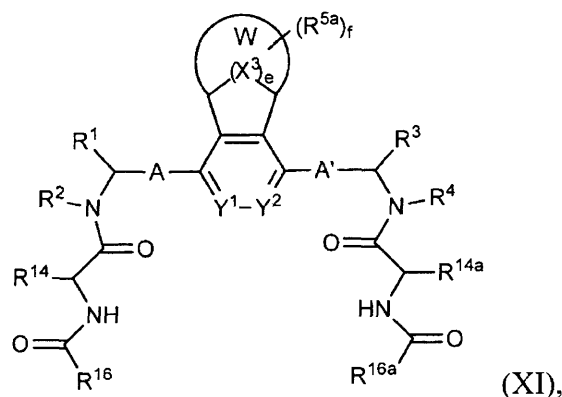


wherein each Q^1 and Q^2 is independently CH_2 , CF_2 , O, $C(=O)$ or NR^6 ;

each of R^{14} and R^{14a} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} heteroalkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl or C_{3-8} cycloalkyl- C_{1-6} -alkyl; and

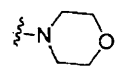
each n_1 is independently 1, 2, 3 or 4.

52. The compound according to claim 1 having Formula (XI):

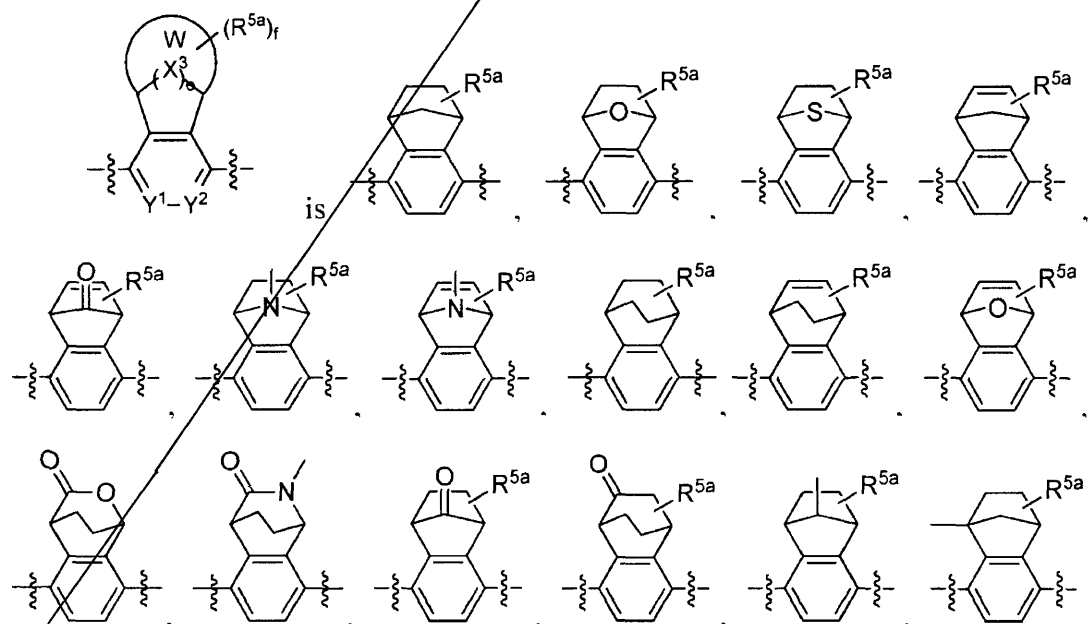


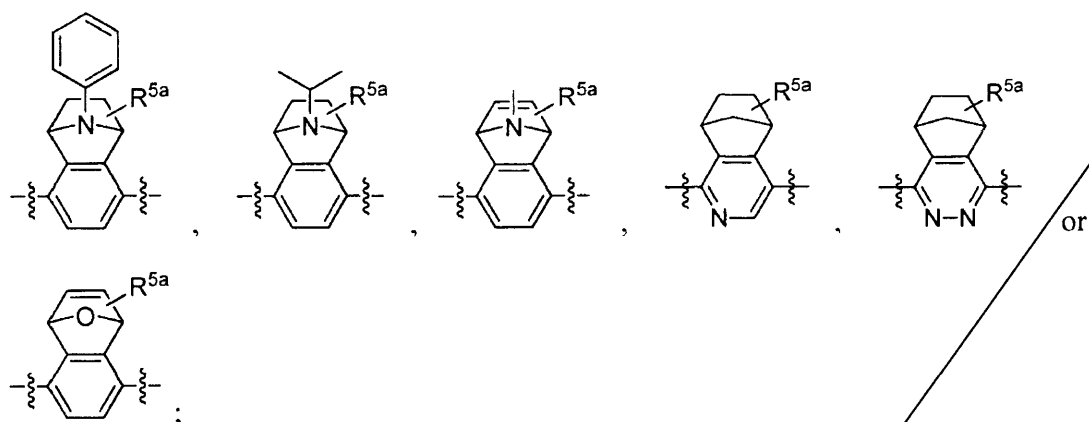
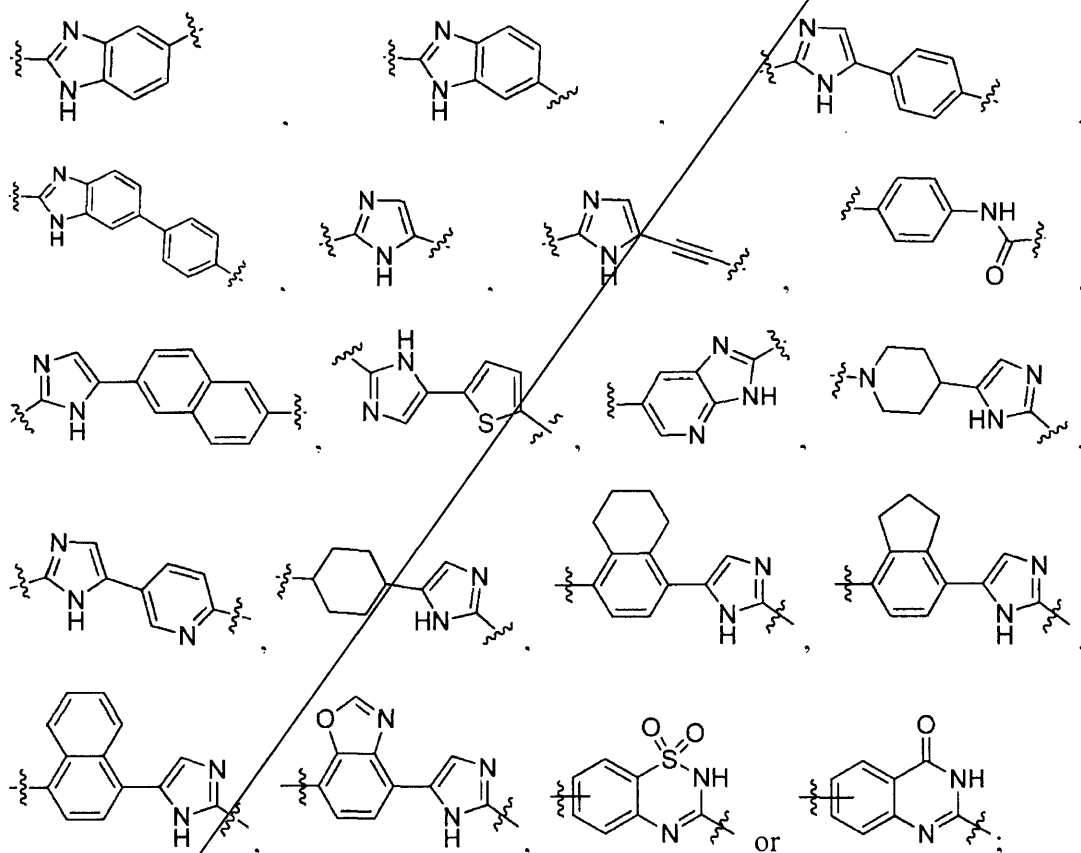
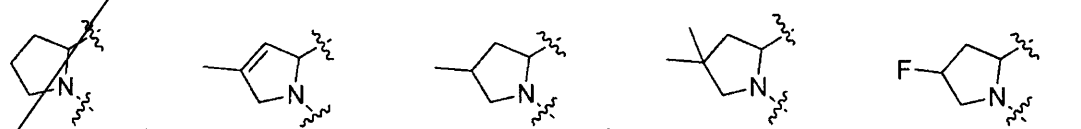
wherein each R^{5a} is independently H, deuterium, methyl, ethyl, F, Cl, Br or I;

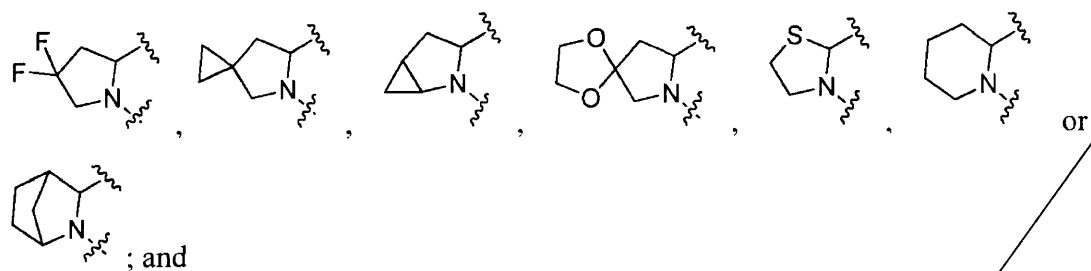
each of R^{14} and R^{14a} is independently H, deuterium, methyl, ethyl, phenyl, cyclohexyl, 1-methyl propyl, isopropyl or *tert*-butyl;

each of R^{16} and R^{16a} is independently hydroxy, methoxy, ethoxy, phenoxy,  or *tert*-butoxy;

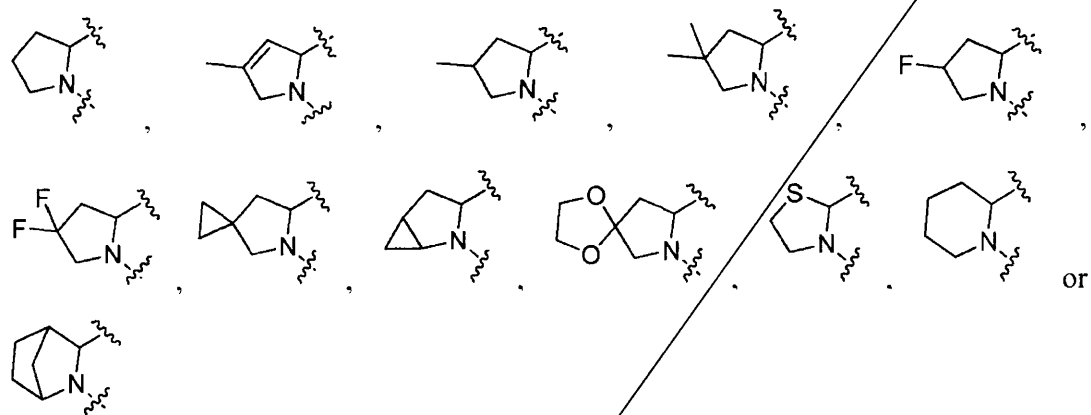
wherein each of methyl, ethyl, phenyl, cyclohexyl, 1-methyl propyl, isopropyl, methoxy, ethoxy, *tert*-butoxy and *tert*-butyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano;



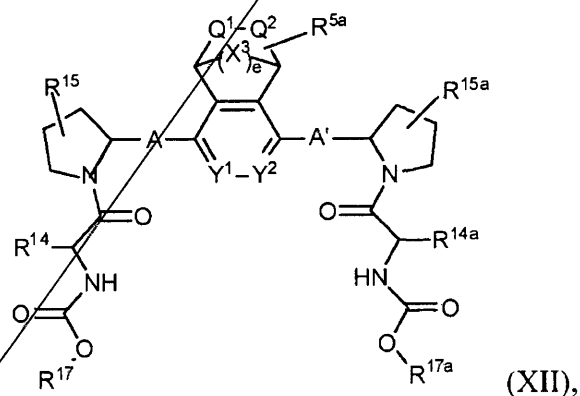




wherein R^3 , R^4 and N-CH together form one of the following divalent groups:



53. The compound according to claim 52 having Formula (XII):



(XII),

wherein R^{5a} is H or methyl;

each of Q^1 and Q^2 is independently CH_2 , CF_2 , O, $C(=O)$ or NR^6 ;

each of Y^1 and Y^2 is independently N or CR^7 ;

R^7 is H, deuterium, methyl, ethyl, isopropyl, phenyl, F, Cl, Br, I, OH or cyano;

each of R^{14} and R^{14a} is independently H, deuterium, methyl, ethyl, isobutyl, cyclohexyl, phenyl or isopropyl;

each of R^{15} and R^{15a} is independently H, deuterium, F, Cl, Br, methyl, ethyl, isopropyl or *tert*-butyl;

each of R^{17} and R^{17a} is independently methyl, phenyl or ethyl;

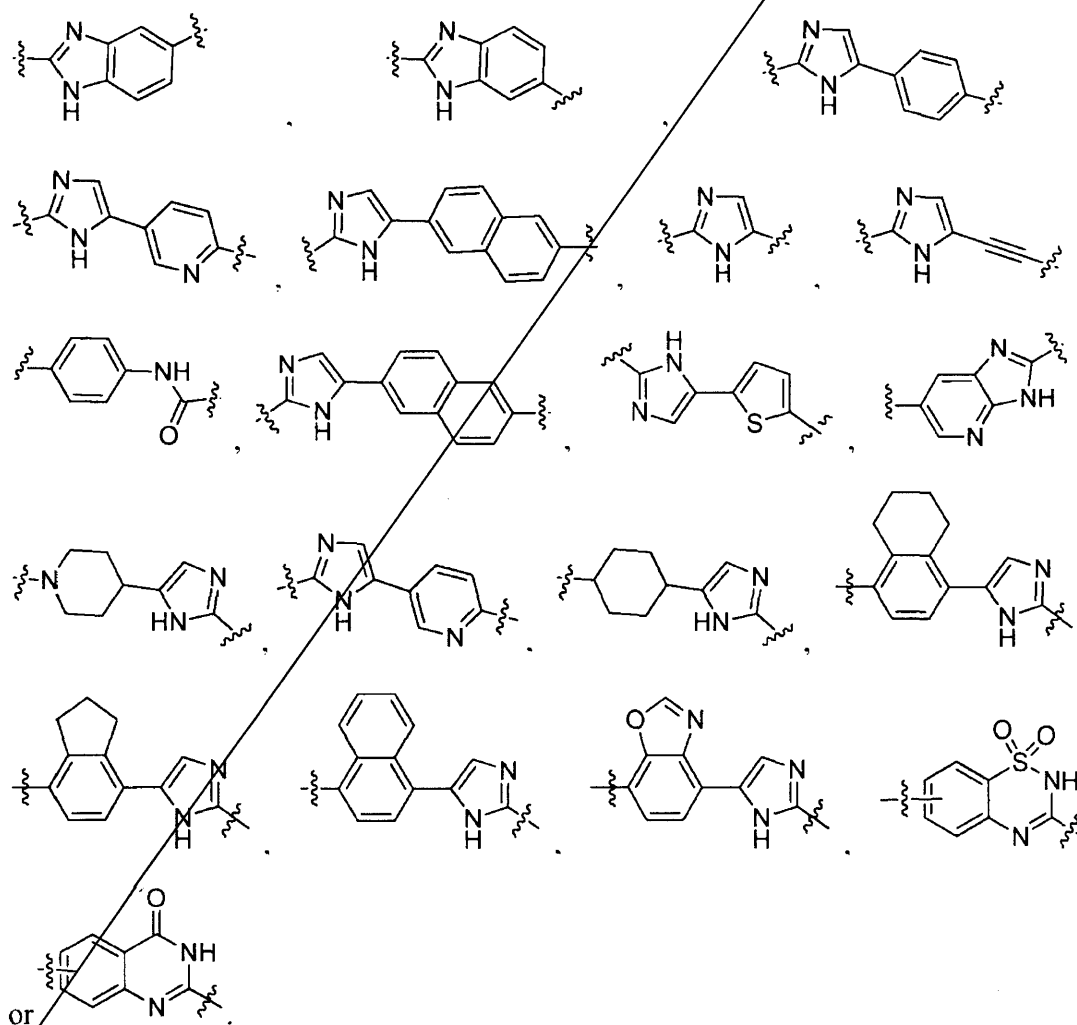
each X^3 is independently O, S, NR^6 , $C(=O)$ or CH_2 ;

each R^6 is independently H, methyl, ethyl, cyclohexyl, phenyl or isopropyl;

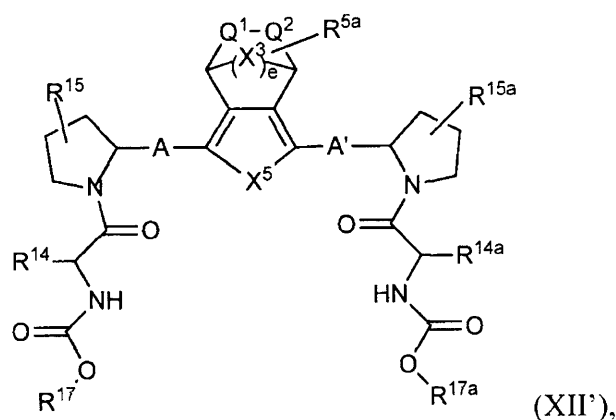
e is 0, 1, 2 or 3 with the proviso that where X^3 is O, S, or NR^6 , e is 1;

wherein each of methyl, ethyl, phenyl, cyclohexyl, isopropyl and *tert*-butyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano; and

each of A and A' is independently



54. The compound according to claim 1 having Formula (XII'):



wherein R^{5a} is H or methyl;

each of Q^1 and Q^2 is independently CH_2 , CF_2 , O, $C(=O)$ or NR^6 ;

X^5 is CH_2 , O, S or NR^6 ;

each of R^{14} and R^{14a} is independently H, deuterium, methyl, ethyl, isobutyl, cyclohexyl, phenyl or isopropyl;

each of R^{15} and R^{15a} is independently H, deuterium, F, Cl, Br, methyl, ethyl, isopropyl or *tert*-butyl;

each of R^{17} and R^{17a} is independently methyl, phenyl or ethyl;

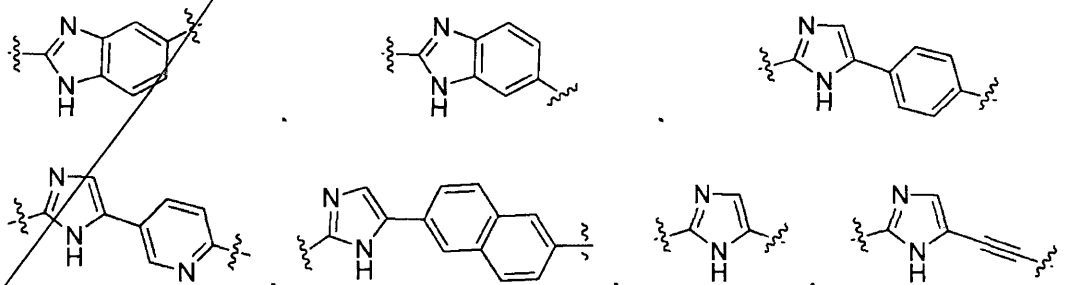
each X^3 is independently O, S, NR^6 , $C(=O)$ or CH_2 ;

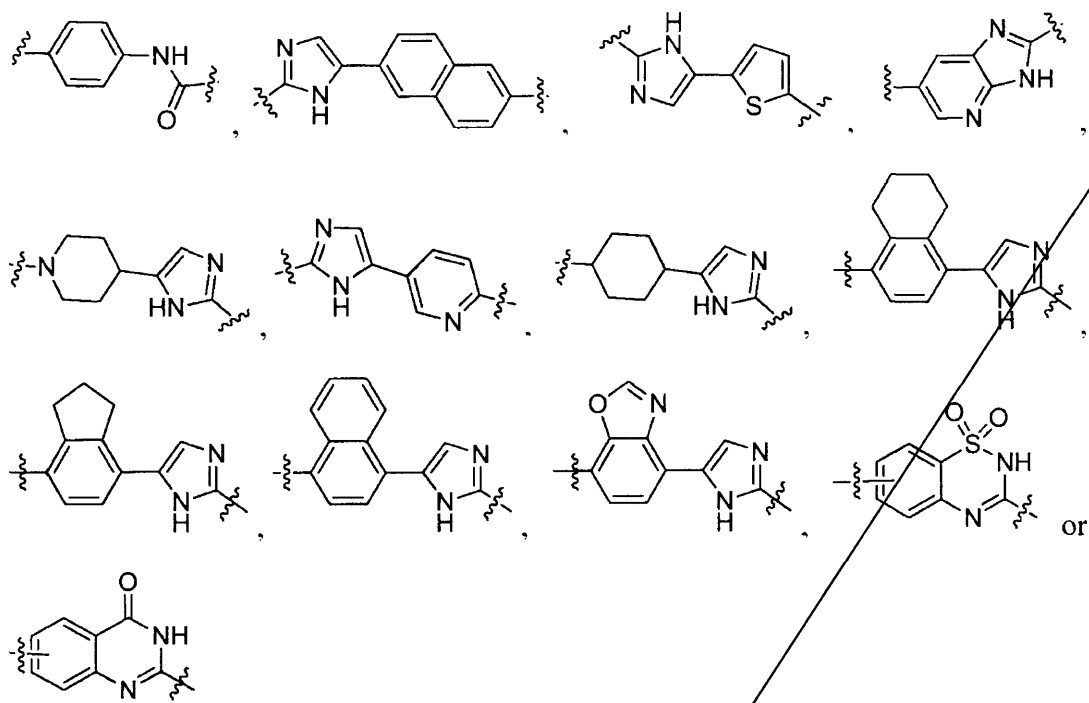
each R^6 is independently H, deuterium, methyl, ethyl, cyclohexyl, phenyl or isopropyl;

e is 0, 1, 2 or 3 with the proviso that where X^3 is O, S, or NR^6 , e is 1;

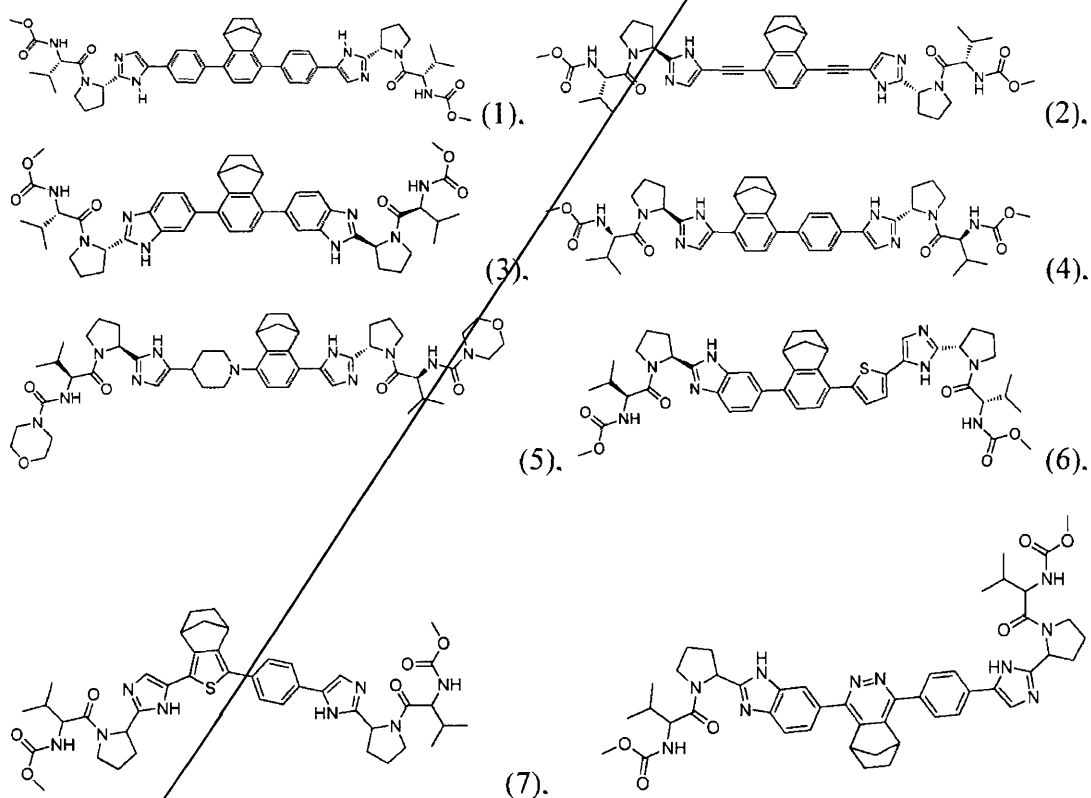
wherein each of methyl, ethyl, phenyl, cyclohexyl, isopropyl and *tert*-butyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano; and

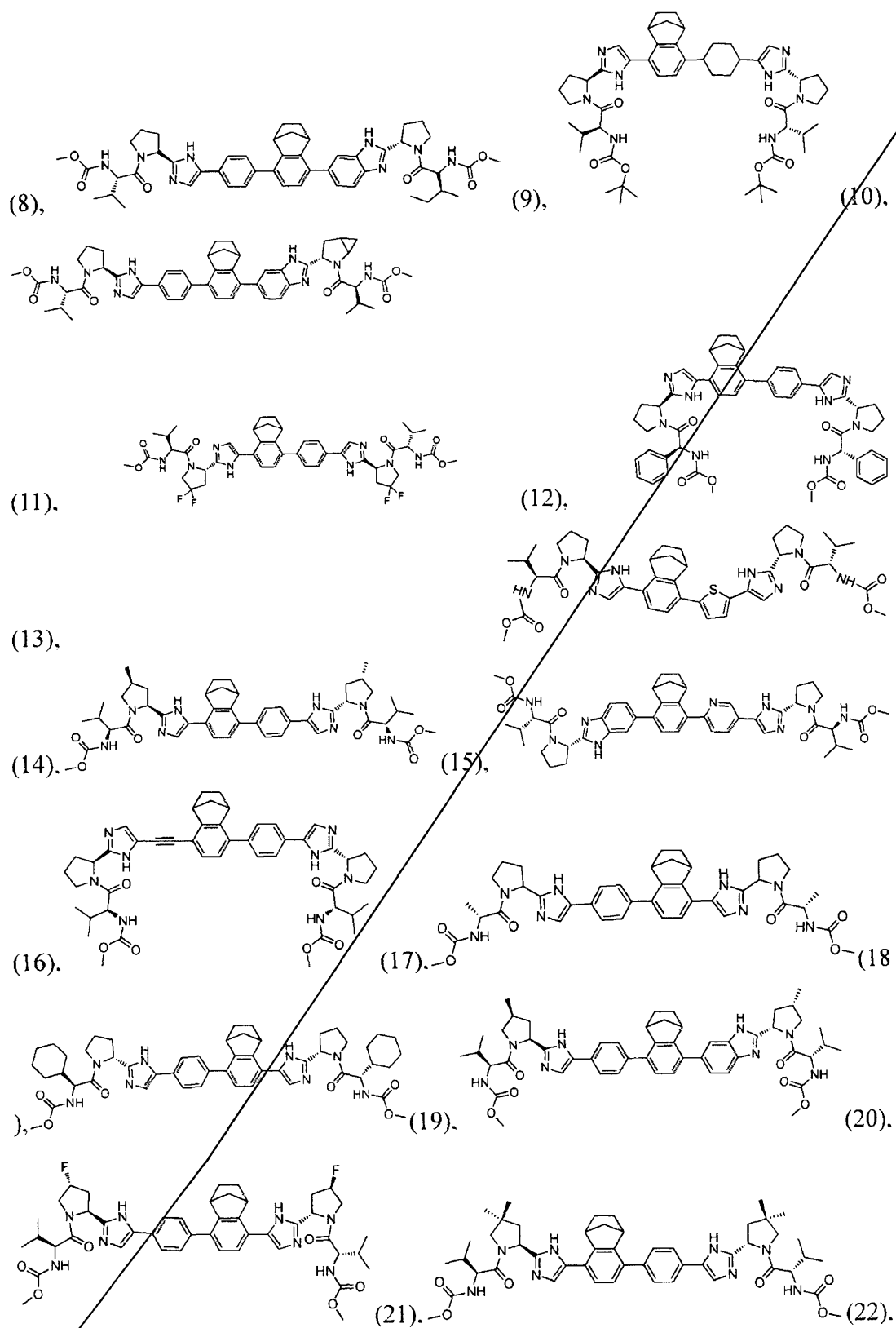
each of A and A' is independently

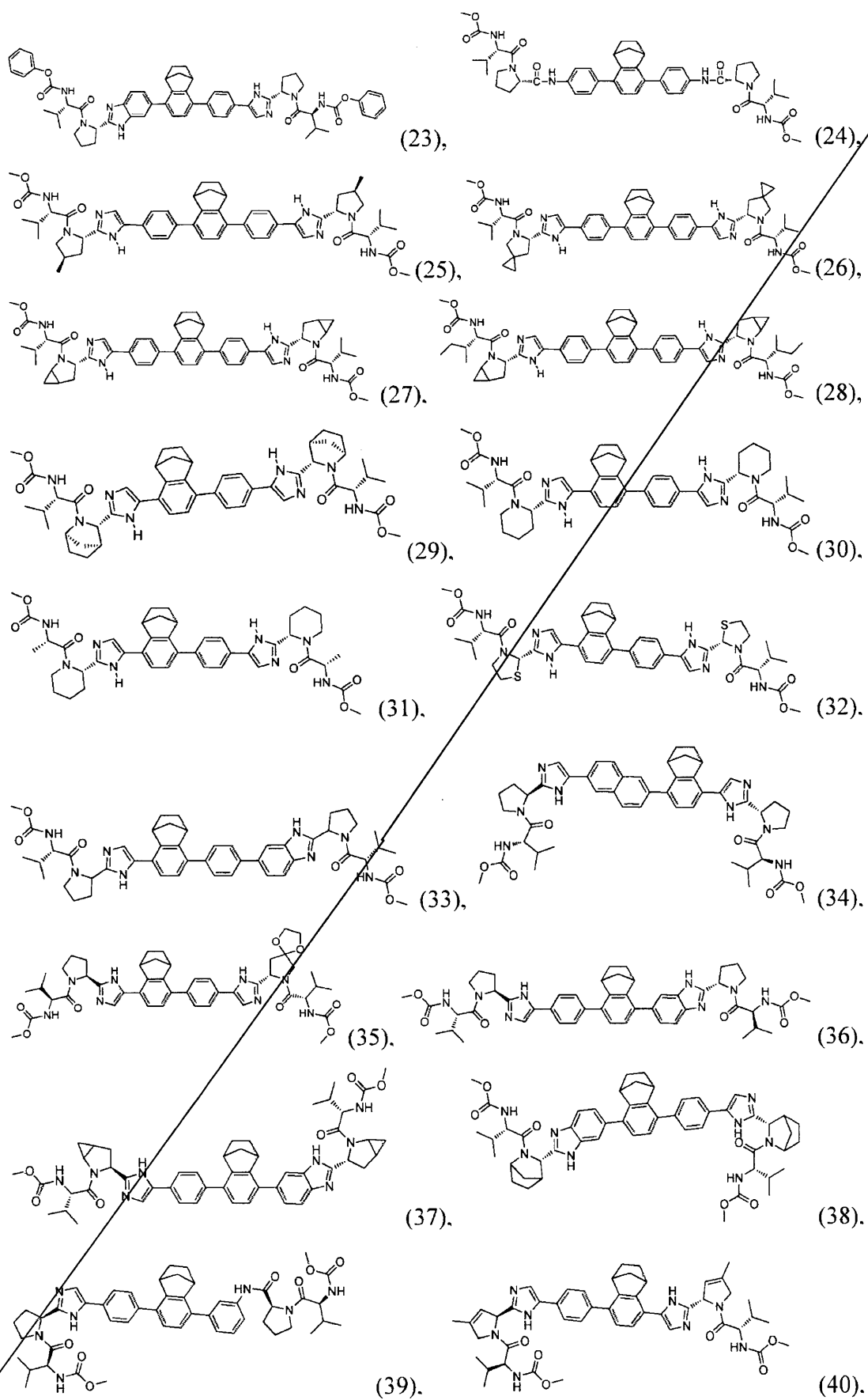


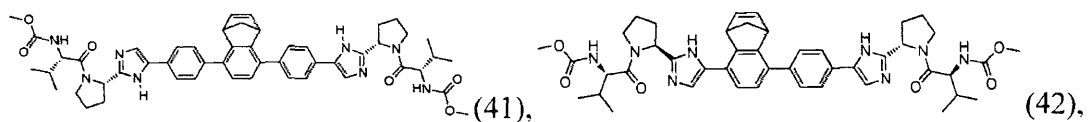
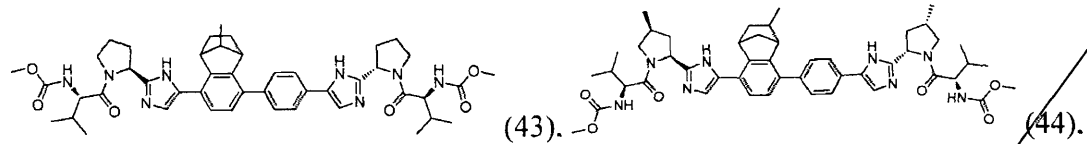
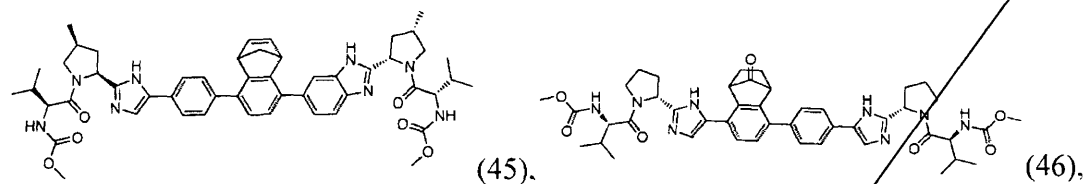
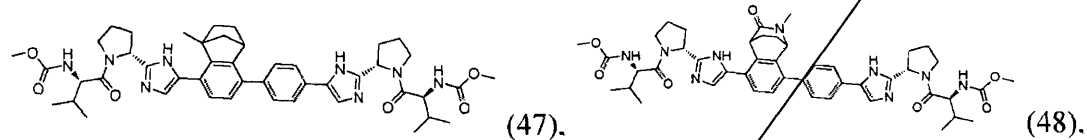
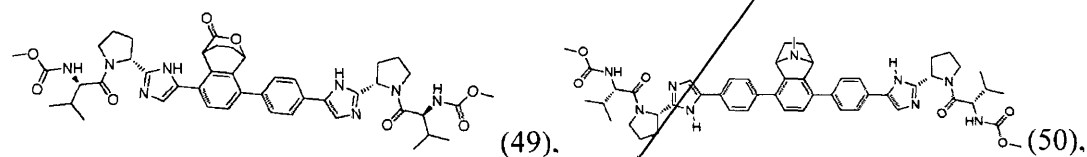
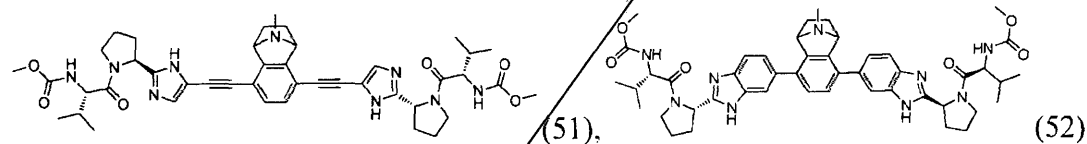
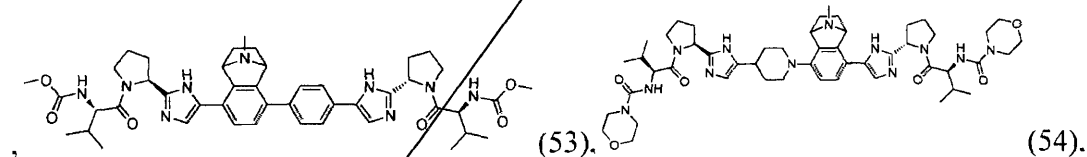
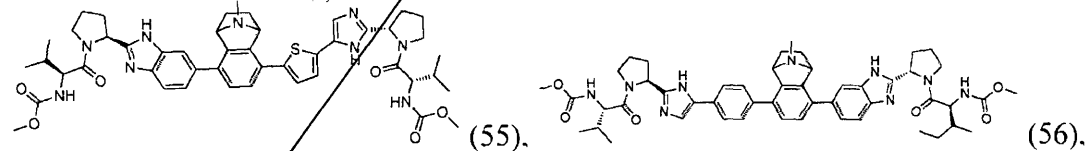
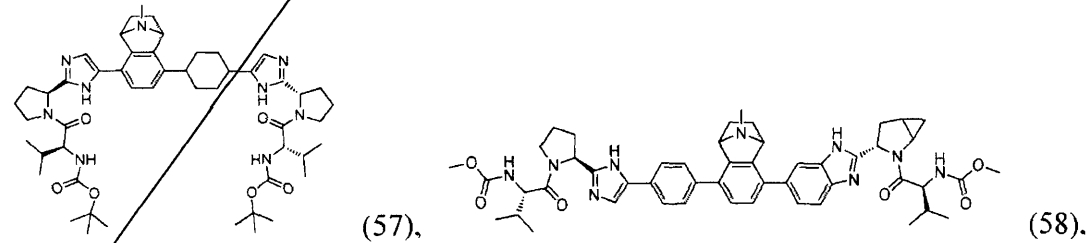
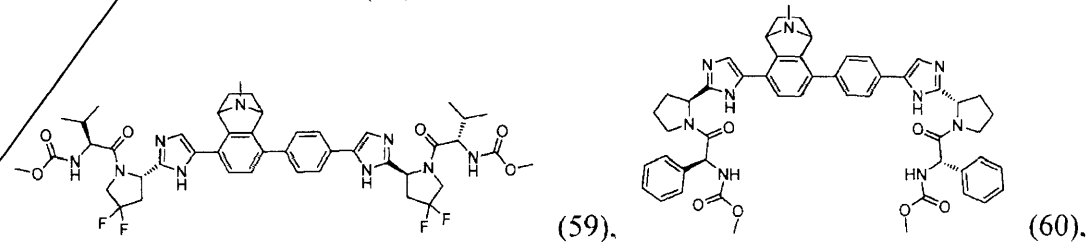


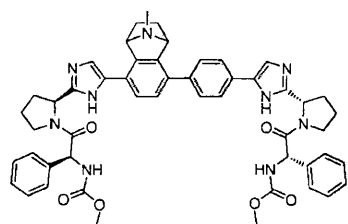
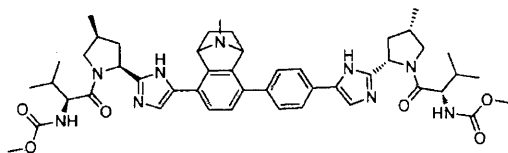
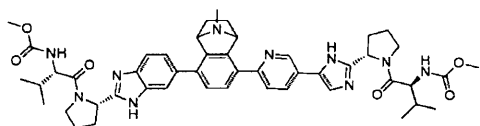
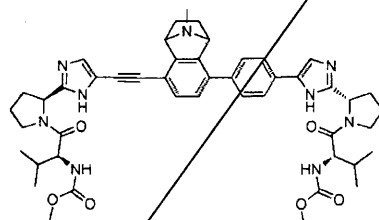
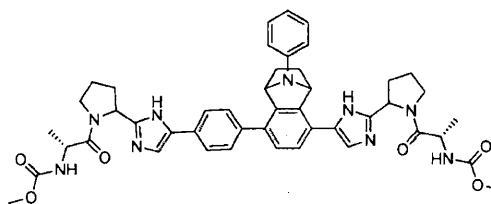
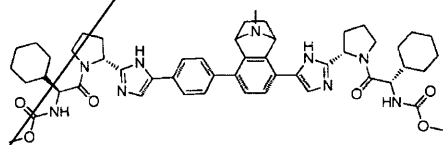
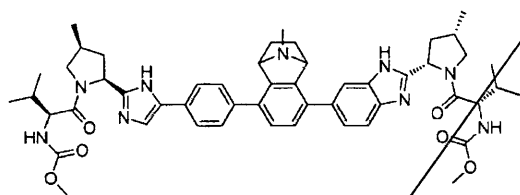
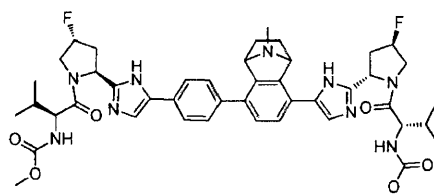
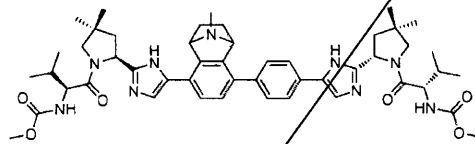
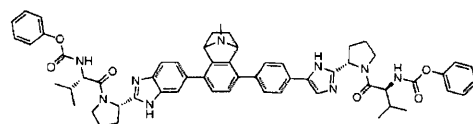
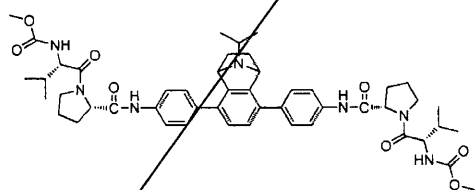
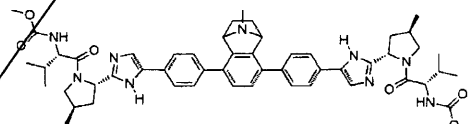
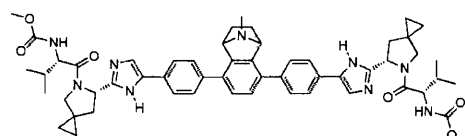
55. The compound of claim 1 having one of the following structures:

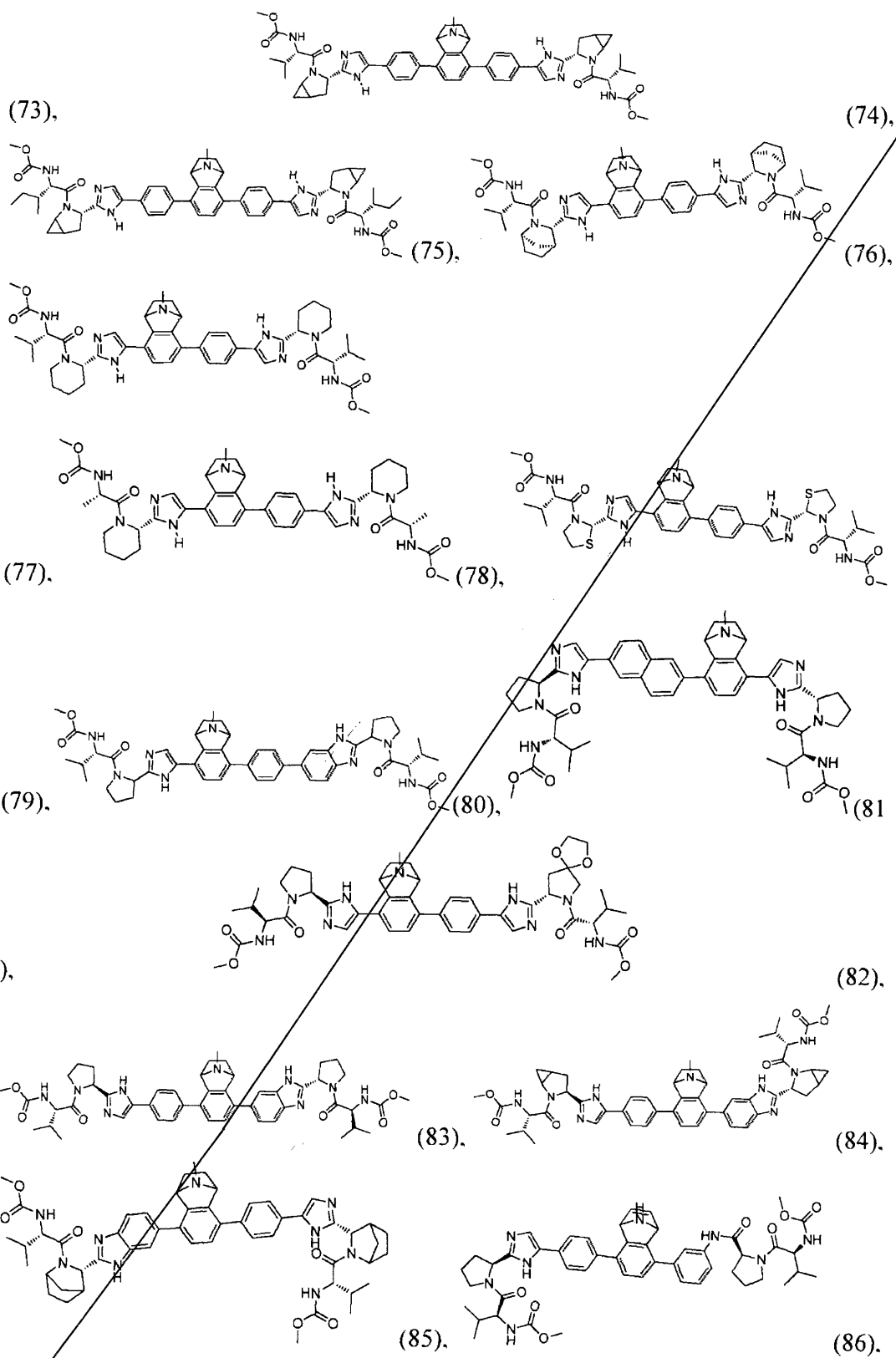


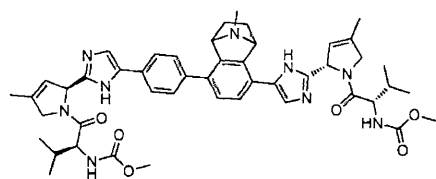




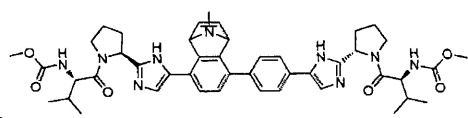




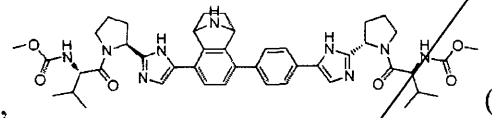




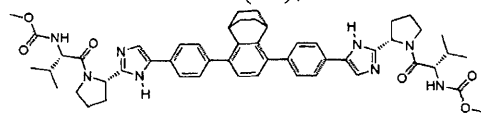
(87),



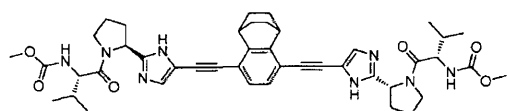
(88),



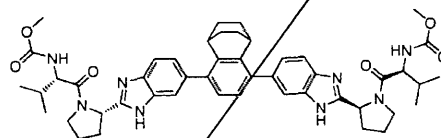
89),



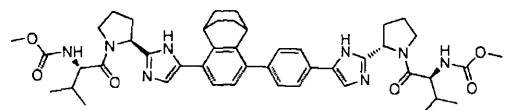
(90),



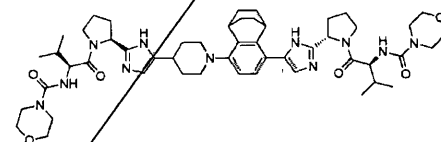
(91),



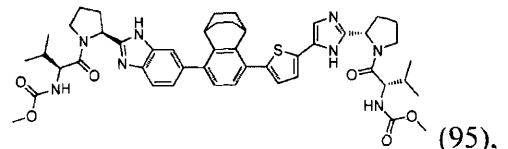
(92),



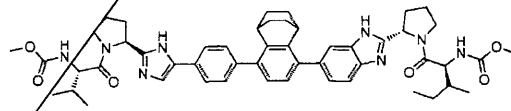
(93),



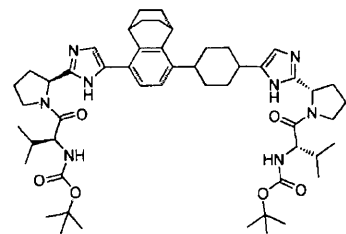
(94),



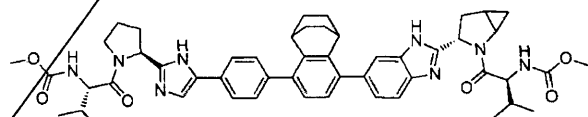
(95),



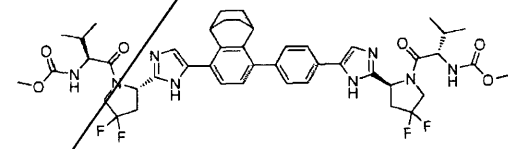
(96),



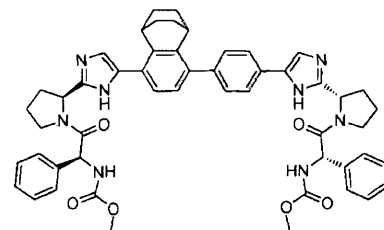
(97),



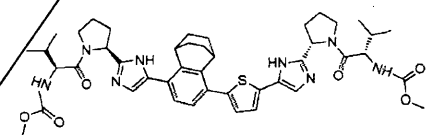
(98),



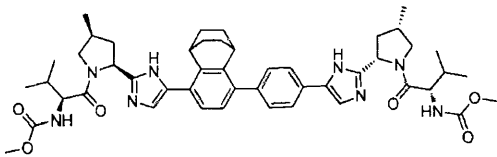
(99),



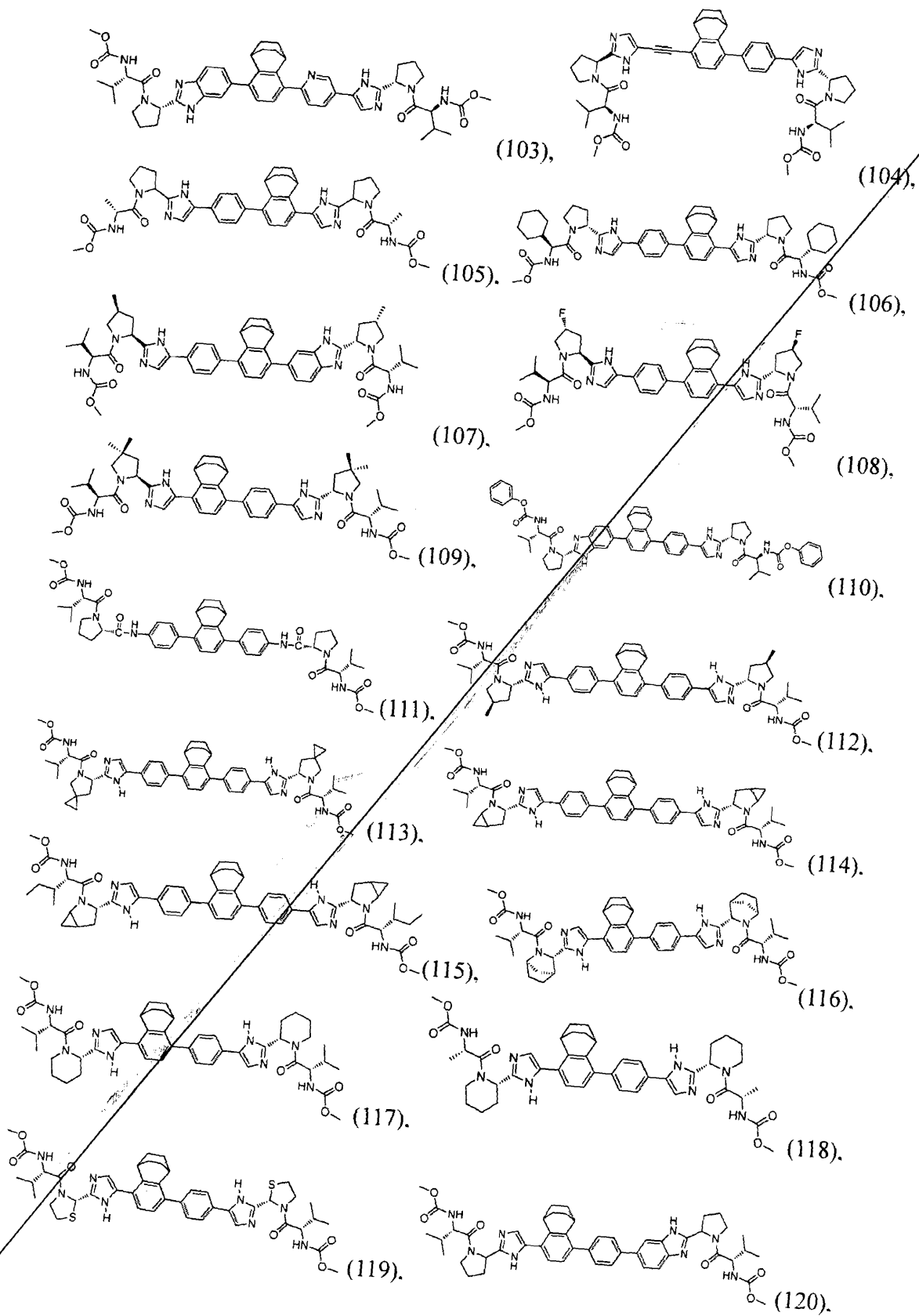
(100),

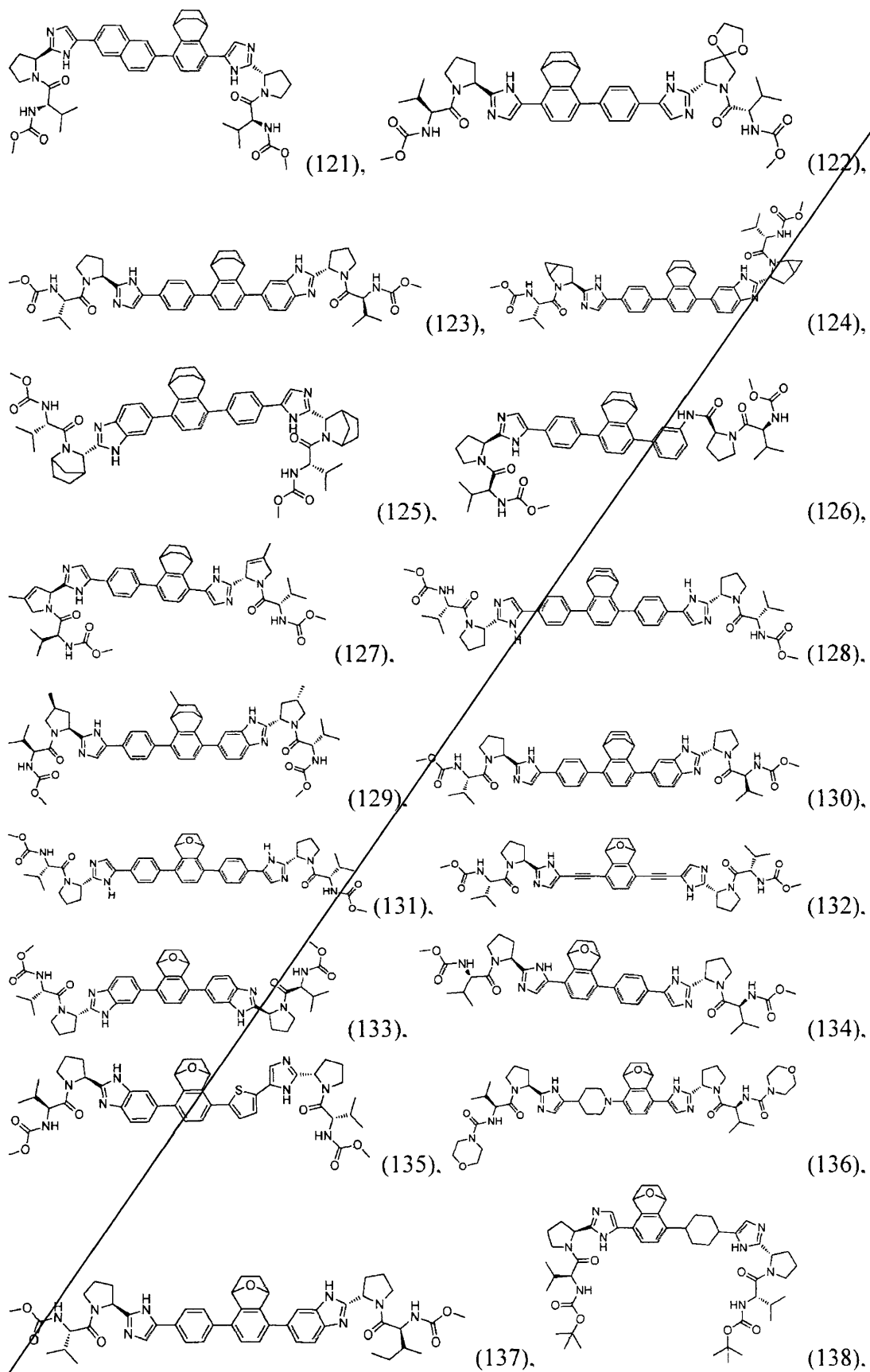


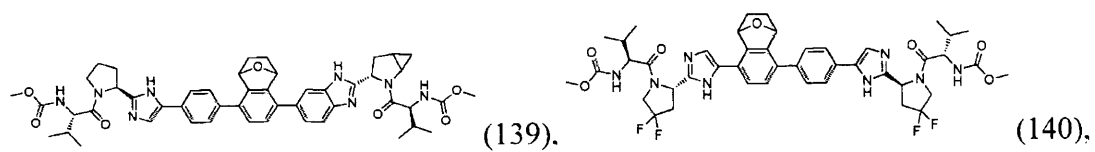
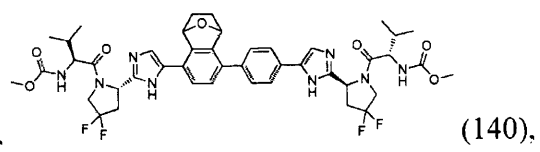
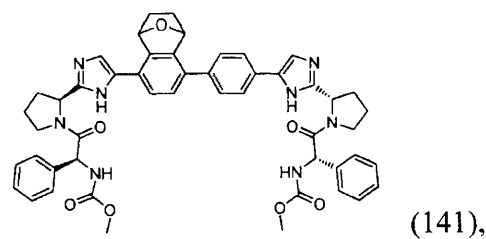
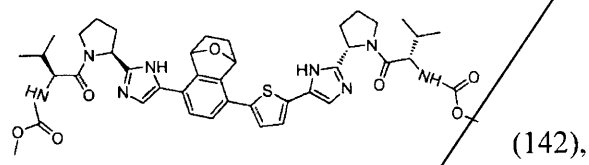
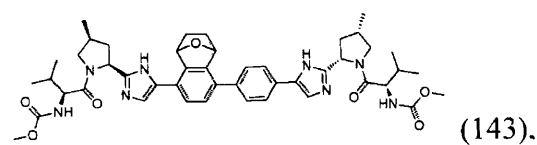
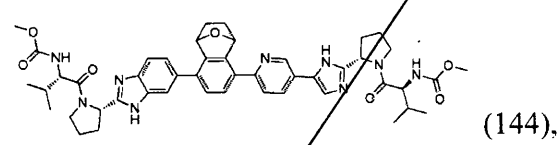
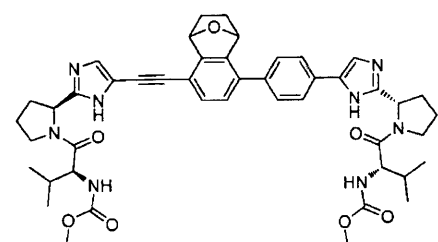
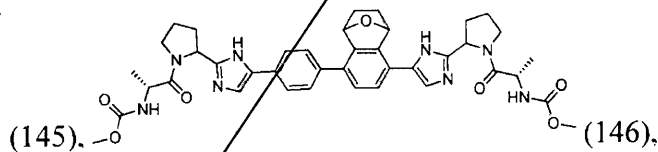
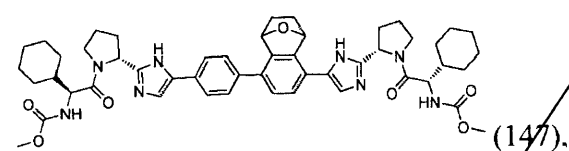
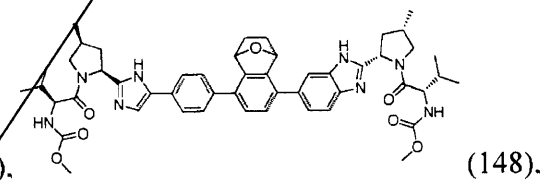
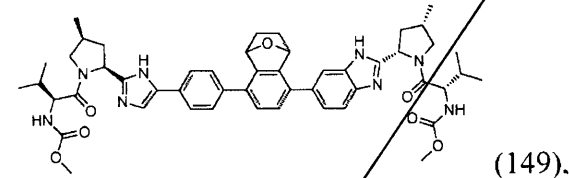
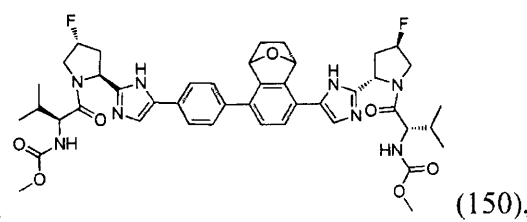
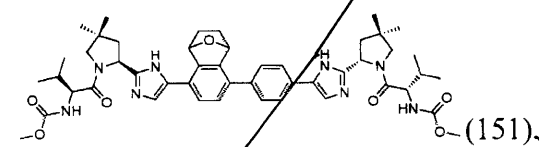
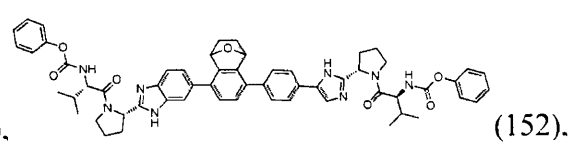
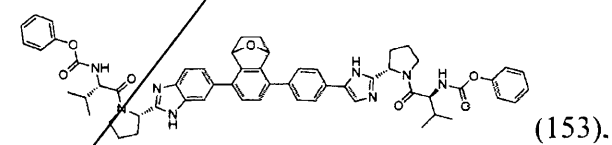
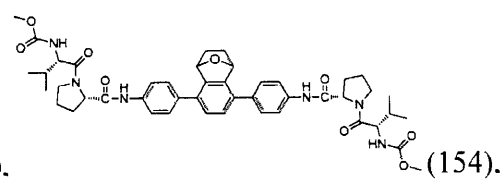
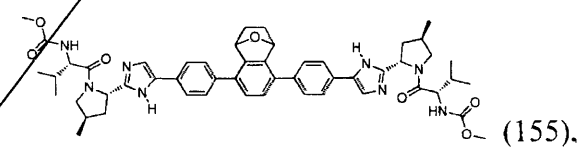
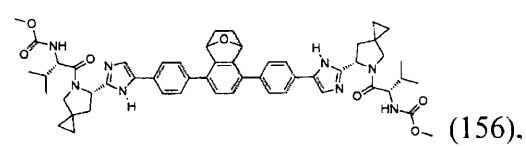
(101),

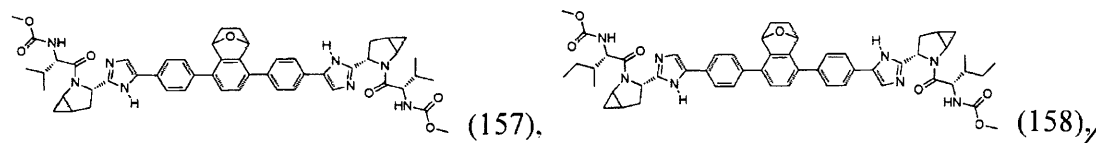
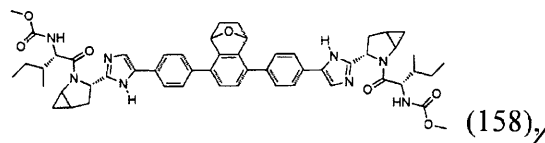
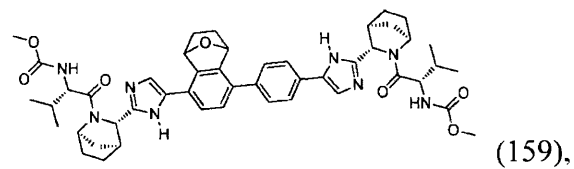
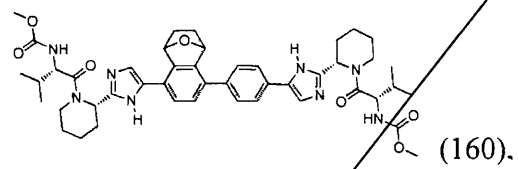
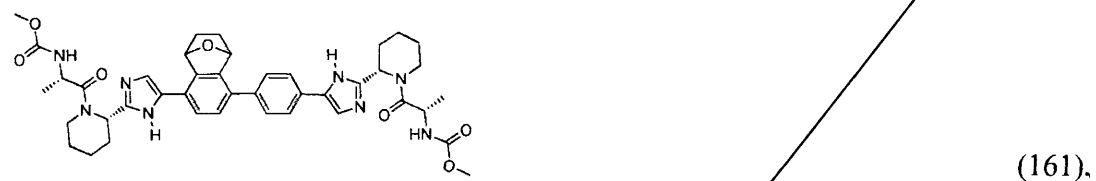
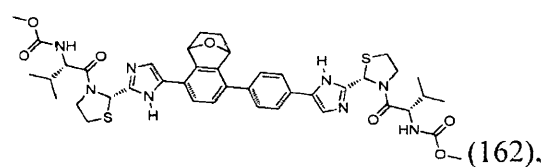
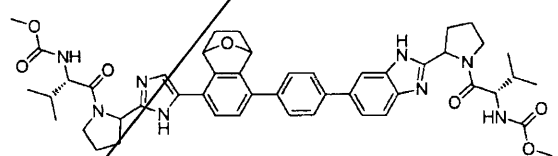
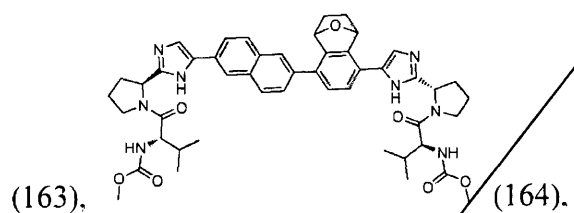
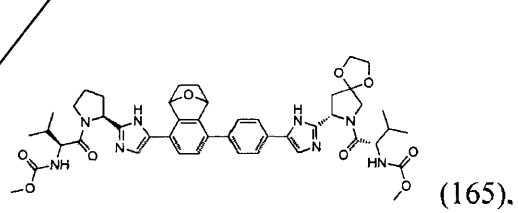
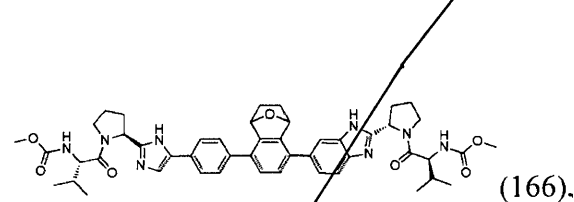
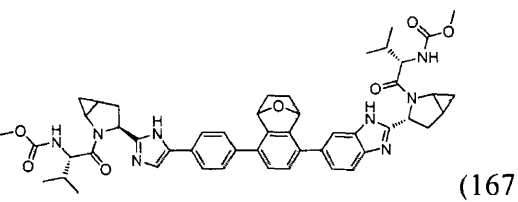
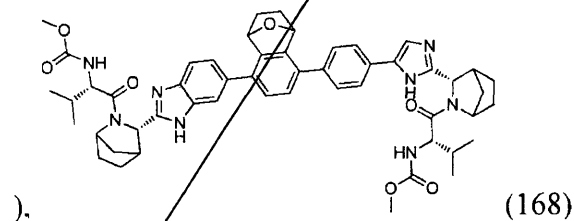
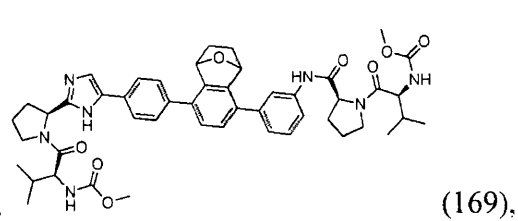
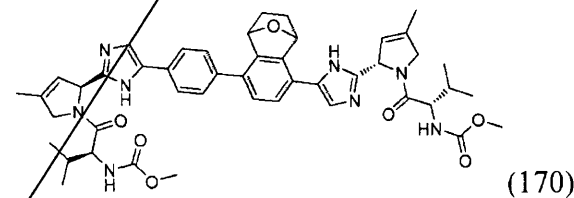
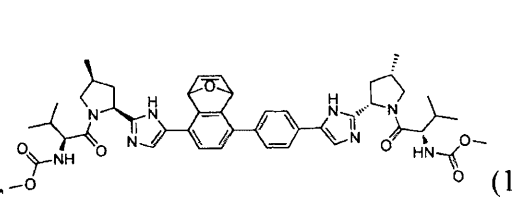
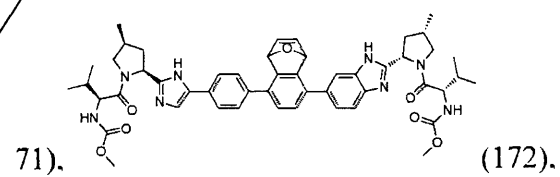
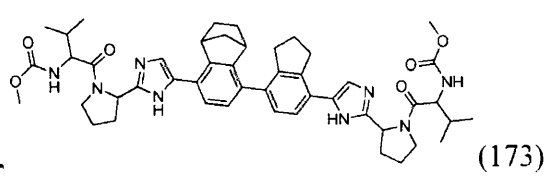


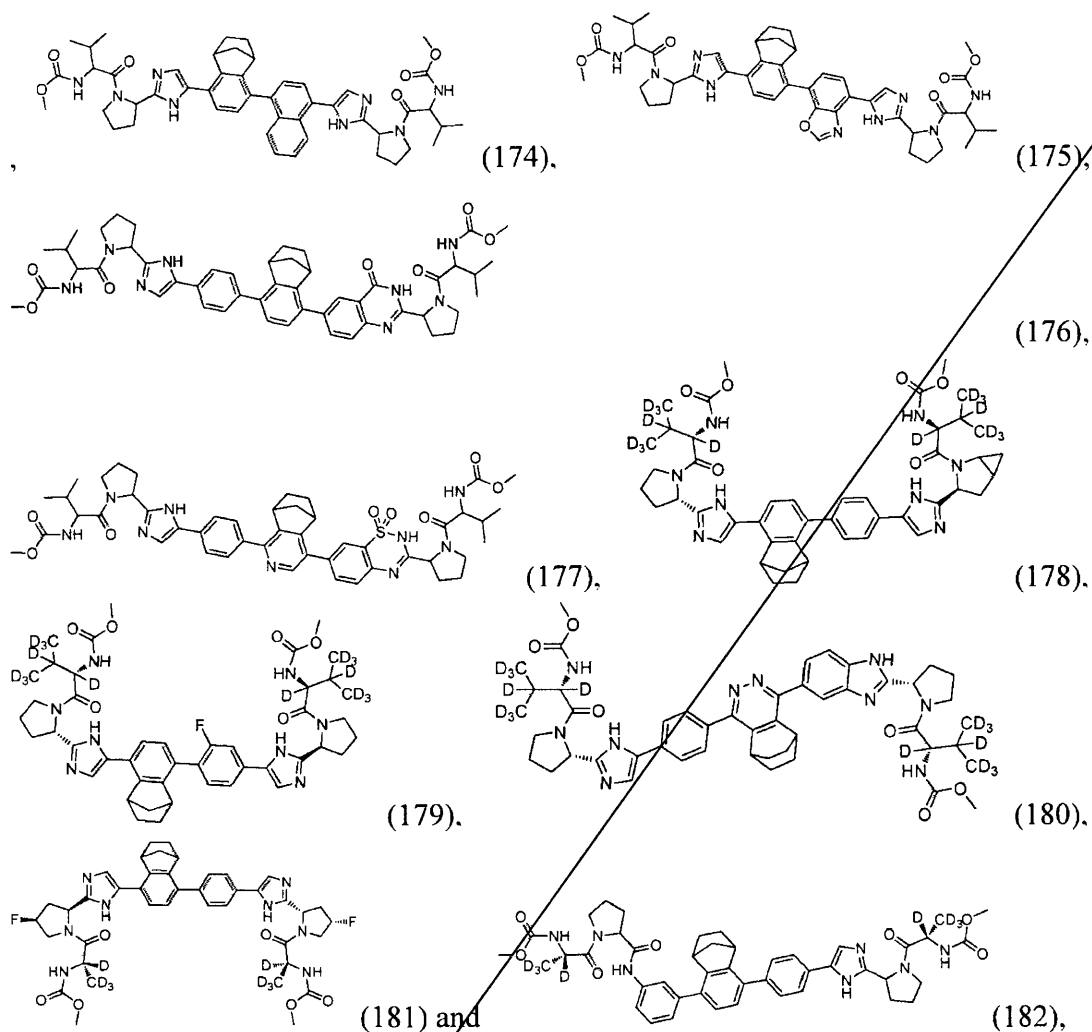
(102),











or a stereoisomer, a geometric isomer, a tautomer, an N-oxide, a hydrate, a solvate, or a pharmaceutically acceptable salt thereof.

56. A pharmaceutical composition comprising a compound according to any one of claims 1 to 55; and a pharmaceutically acceptable carrier, excipient, diluent, adjuvant, vehicle or a combination thereof.

57. The pharmaceutical composition according to claim 56 further comprising an anti-HCV agent.

58. The pharmaceutical composition according to claim 57, wherein the anti-HCV agent is an interferon, ribavirin, IL-2, IL-6, IL-12, a compound that enhances the development of a type 1 helper T cell response, interfering RNA, anti-sense RNA, imiquimod, an inosine-5'-monophosphate dehydrogenase inhibitor, amantadine, rimantadine, ribavirin, bavituximab, human hepatitis C immune globulin (CIVACIR™), boceprevir, telaprevir, erlotinib, daclatasvir, simeprevir, asunaprevir, vaniprevir, faldaprevir, ABT-450, danoprevir, sovalprevir, MK-5172, vedoprevir, BZF-961, GS-9256, narlaprevir, ANA975, ABT-267, EDP239, PPI-668, GS-5816,

samatasvir (IDX-719), MK-8742, MK-8325, GSK-2336805, PPI-461, TMC-435, MK-7009, BI-2013335, ciluprevir, BMS-650032, ACH-1625, ACH-1095, VX-985, IDX-375, VX-500, VX-813, PHX-1766, PHX-2054, IDX-136, IDX-316, EP-013420, VBY-376, TMC-649128, R-7128, PSI-7977, INX-189, IDX-184, IDX102, R1479, UNX-08189, PSI-6130, PSI-938, PSI-879, HCV-796, HCV-371, VCH-916, VCH-222, ANA-598, MK-3281, ABT-333, ABT-072, PF-00868554, BI-207127, GS-9190, A-837093, JKT-109, GI-59728, GL-60667, AZd-2795, TMC647055 or a combination thereof.

59. The pharmaceutical composition according to claim 58, wherein the interferon is interferon α -2b, pegylated interferon α , interferon α -2a, pegylated interferon α -2a, consensus interferon- α , or interferon γ .

60. The pharmaceutical composition according to any one of claims 56 to 59 further comprising at least one HCV inhibitor, and wherein the HCV inhibitor inhibits HCV viral protein, HCV replication or HCV viral protein and HCV replication, wherein the HCV viral protein is helicase, proteinase, polymerase, metalloproteinase, serine proteinase, non-structural protein NS4A, non-structural protein NS5A, or non-structural protein NS4B, and wherein the HCV replication is HCV entry, HCV assembly, HCV egress, internal ribosome entrysite (IRES) or inosine-5'-monophosphate dehydrogenase (IMPDH).

61. A compound according to any one of claims 1 to 55 or the pharmaceutical composition according to any one of claims 56 to 59 for use in inhibiting HCV viral protein, HCV replication or HCV viral protein and HCV replication, wherein the HCV viral protein is helicase, proteinase, polymerase, metalloproteinase, serine proteinase, non-structural protein NS4A, non-structural protein NS5A, or non-structural protein NS4B, and wherein the HCV replication is HCV entry, HCV assembly, HCV egress, internal ribosome entrysite (IRES) or inosine-5'-monophosphate dehydrogenase (IMPDH).

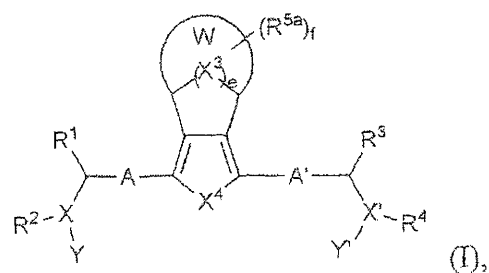
62. The compound according to any one of claims 1 to 55 or the pharmaceutical composition according to any one of claims 56 to 59 for use in preventing, managing, treating or lessening the severity of HCV infection or a HCV disorder in a patient.

63. Use of the compound according to any one of claims 1 to 55 or the pharmaceutical composition according to any one of claims 56 to 59 in the manufacture of a medicament for preventing, managing, treating or lessening the severity of HCV infection or a HCV disorder in a patient.

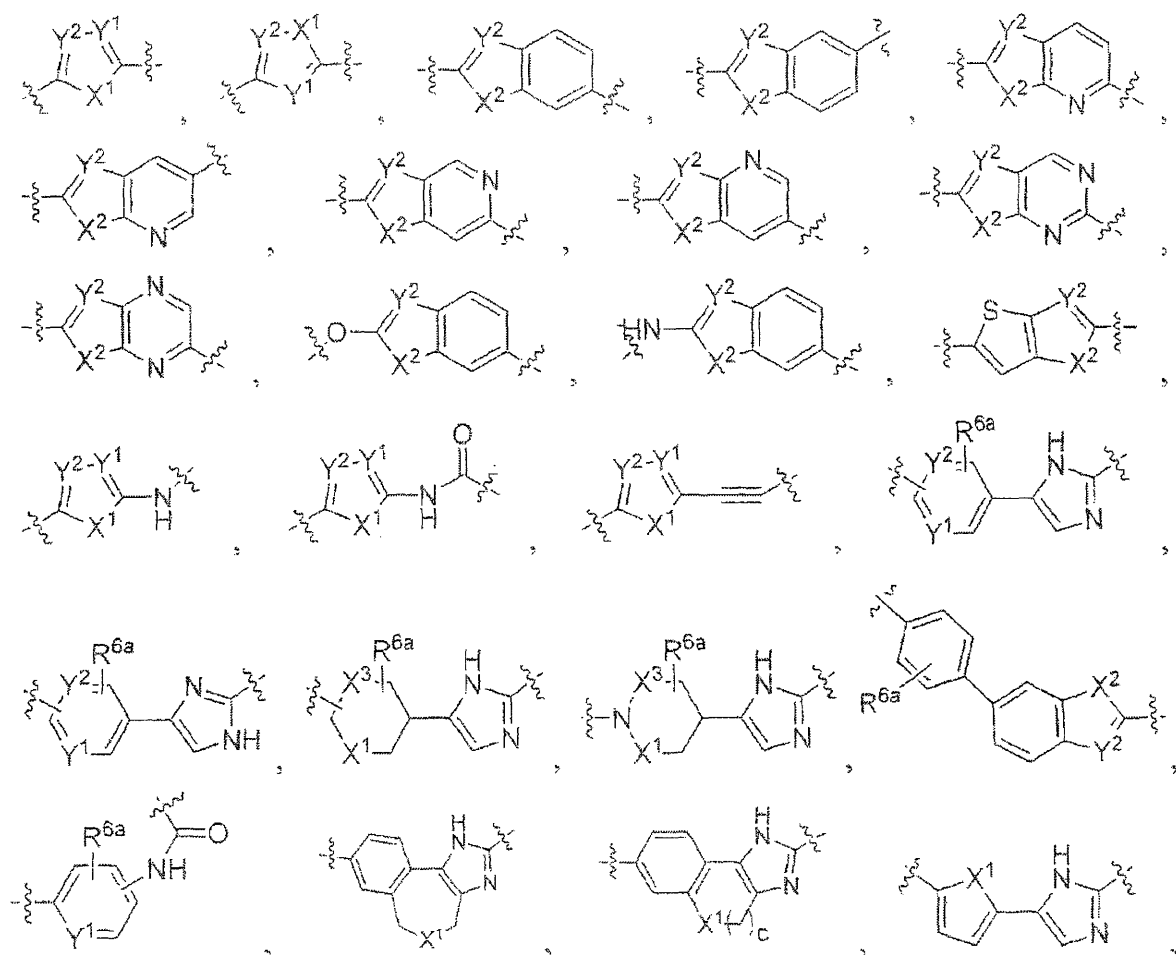
64. A method of preventing, managing, treating or lessening the severity of HCV infection or a HCV disorder in a patient comprising administering to the patient in need of such treatment a therapeutically effective amount of the compound according to any one of claims 1 to 55 or the pharmaceutical composition according to any one of claims 56 to 59.

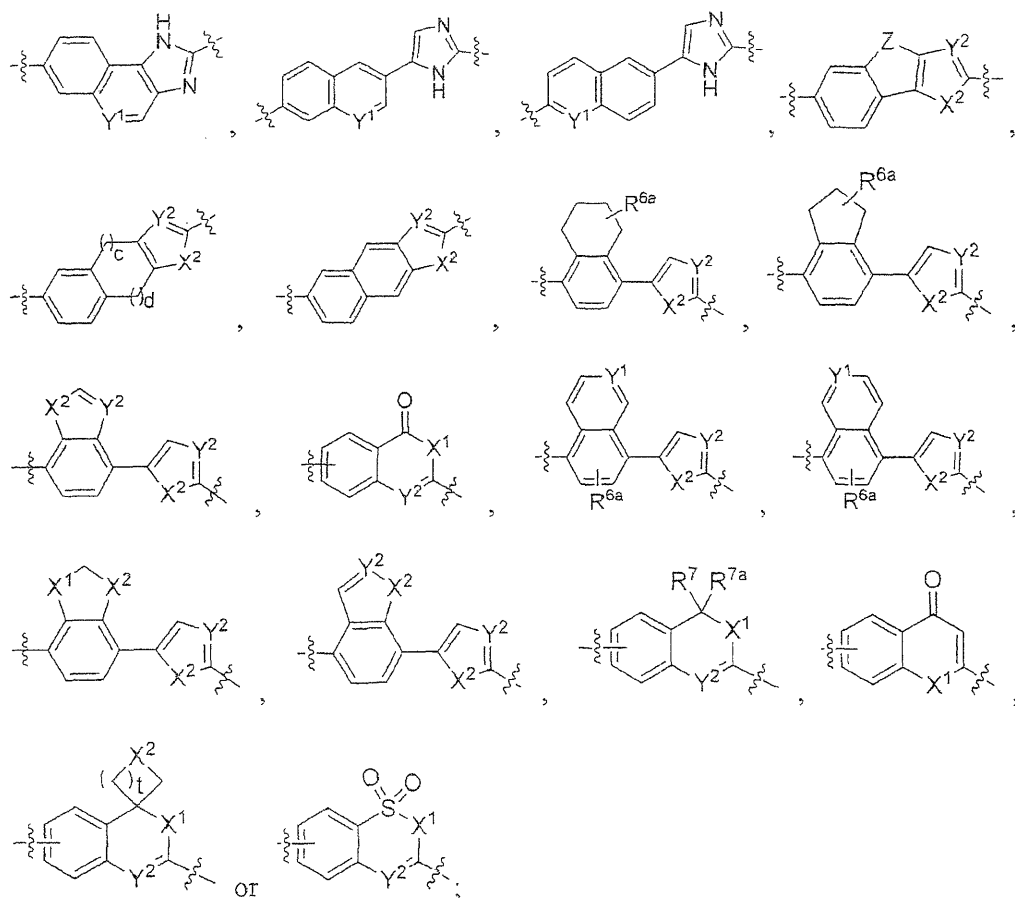
CLAIMS

1. A compound of Formula (I):



or a stereoisomer, a geometric isomer, a tautomer, an *N*-oxide, a hydrate, a solvate, a pharmaceutically acceptable salt or a prodrug thereof,
each of A and A' is independently





wherein each X^1 is independently O, S, NR^6 , or CR^7R^{7a} ;

each X^2 is independently NR^6 , O or S;

each X^3 is independently O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ;

X^4 is $(CR^7R^{7a})_n$, $\frac{1}{2}Y^1=Y^2\frac{1}{2}$, O, S or NR^6 ;



is carbocyclyl or heterocyclyl;

each Y^1 and Y^2 is independently N or CR^7 ;

Z is $-(CH_2)_a-$, $-CH=CH-$, $-N=CH-$, $-(CH_2)_a-N(R^5)-(CH_2)_b-$, or $-(CH_2)_a-O-(CH_2)_b-$,

wherein each a and b is independently 0, 1, 2 or 3;

each c is independently 1 or 2;

each d is independently 1 or 2;

each n is independently 0, 1, 2 or 3;

e is 0, 1, 2, 3 or 4 with the proviso that where X^3 is O, S or NR^6 , e is 1;

f is 0, 1, 2, 3 or 4;

each of X and X' is independently N or CR^7 ;

each of Y and Y' is independently
- $[U-(CR^9R^{9a})_t-N(R^{10})-(CR^9R^{9a})_t]_k-U-(CR^9R^{9a})_t-N(R^{11})-(CR^9R^{9a})_t-R^{12}$,
- $U-(CR^9R^{9a})_t-R^{12}$ or - $[U-(CR^9R^{9a})_t-N(R^{10})-(CR^9R^{9a})_t]_k-U-(CR^9R^{9a})_t-O-(CR^9R^{9a})_t-R^{12}$;

each U is independently -C(=O)-, -C(=S)-;

each t is independently 0, 1, 2, 3 or 4;

each k is independently 0, 1 or 2;

R^1 and R^2 , together with X-CH they are attached to, optionally form a 3-8 membered heterocycle or carbocycle, C_{5-12} fused bicycle, C_{5-12} fused heterobicycle, C_{5-12} spiro bicycle or C_{5-12} spiro heterobicycle; or R^3 and R^4 , together with $X'-CH$ they are attached to, optionally form a 3-8 membered heterocycle or carbocycle, C_{5-12} fused bicycle, C_{5-12} fused heterobicycle, C_{5-12} spiro bicycle or C_{5-12} spiro heterobicycle;

each R^5 is independently H, deuterium, hydroxy, alkyl, heteroalkyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, aralkyl, alkoxy;

each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, aryl, heteroaryl, alkoxy, alkylamino, alkyl, haloalkyl, alkenyl, alkynyl, heterocyclyl, cycloalkyl, mercapto, nitro, aralkyl;

each R^6 is independently H, deuterium, aliphatic, haloaliphatic,

hydroxyaliphatic, aminoaliphatic, alkoxyaliphatic, alkylaminoaliphatic, alkylthioaliphatic, arylaliphatic, heteroarylaliphatic, heterocyclaliphatic, cycloalkylaliphatic, aryloxyaliphatic, heterocycloxyaliphatic, cycloalkyloxyaliphatic, arylaminoaliphatic, heterocyclaminoaliphatic, cycloalkylaminoaliphatic, aryl, heteroaryl, heterocycl or carbocycl;

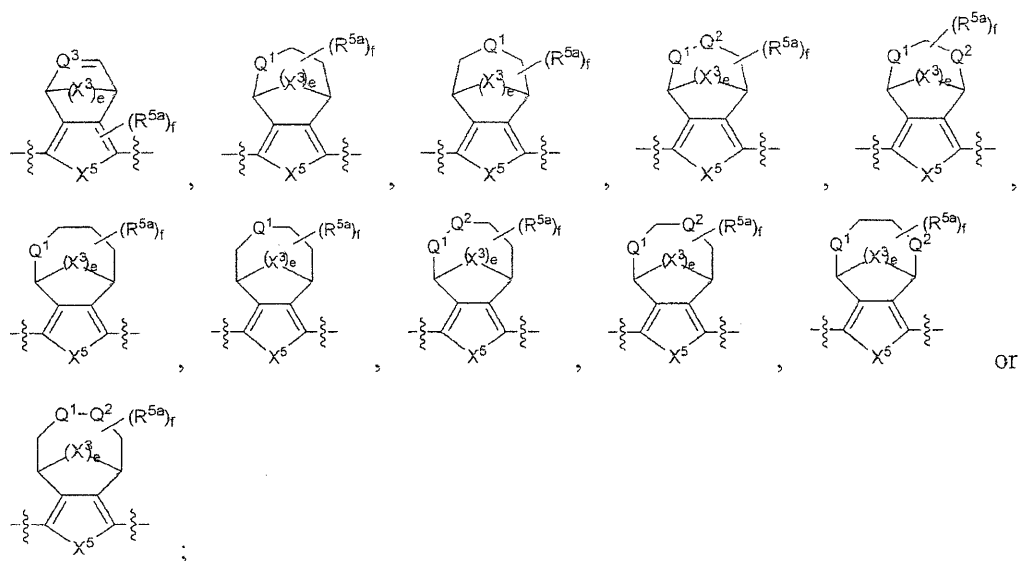
each R^{6a} is independently H, deuterium, hydroxy, amino, F, Cl, Br, I, cyano, alkyl, haloalkyl, alkenyl, alkynyl, heterocycl, cycloalkyl, mercapto, nitro, aralkyl, arylamino, heteroarylamino, arylalkylamino, heteroarylalkylamino, heteroaryloxy, heteroarylalkyl, arylalkoxy, heteroarylalkoxy, heterocycloxy, heterocyclalkoxy, heterocyclamino, heterocyclalkylamino, or aryloxy;

each R^7 and R^{7a} is independently H, deuterium, F, Cl, aliphatic, heteroalkyl, haloaliphatic, hydroxyaliphatic, aminoaliphatic, alkoxyaliphatic, alkylaminoaliphatic, alkylthioaliphatic, arylaliphatic, heterocyclaliphatic, cycloalkylaliphatic, aryloxyaliphatic, heterocycloxyaliphatic, cycloalkyloxyaliphatic, arylaminoaliphatic, heterocyclaminoaliphatic, cycloalkylaminoaliphatic, aryl, heteroaryl, heterocycl or carbocycl;

each R^9 , R^{9a} , R^{10} and R^{11} is independently H, deuterium, alkyl, heteroalkyl, cycloalkyl, heterocycl, aryl, heteroaryl, aralkyl, haloalkyl, hydroxyalkyl, heteroarylalkyl, heterocyclalkyl, or cycloalkylalkyl;

each R^{12} is independently $R^{13a}R^{13}N-$, $-C(=O)R^{13}$, $-C(=S)R^{13}$, $-C(=O)-O-R^{13}$, $-C(=O)NR^{13}R^{13a}$, $-OC(=O)NR^{13}R^{13a}$, $-OC(=O)OR^{13}$, $-N(R^{13})C(=O)NR^{13}R^{13a}$, $-N(R^{13})C(=O)OR^{13a}$, $-N(R^{13})C(=O)-R^{13a}$, $R^{13}R^{13a}N-S(=O)_2-$, $R^{13}S(=O)_2-$, $R^{13}S(=O)_2N(R^{13a})-$, $R^{13}OS(=O)_2-$, alkyl, heteroalkyl, cycloalkyl, heterocycl, aryl, heteroaryl or aralkyl; or R^{11} and R^{12} are optionally joined to form a 4-7 membered ring; and

each R^{13} and R^{13a} is independently H, deuterium, alkyl, heteroalkyl, cycloalkyl, heterocycl, aryl, heteroaryl, or aralkyl;



each Y^1 and Y^2 is independently N or CR^7 ;

each X^3 is independently O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ;

each X^5 is independently CR^7R^{7a} , O, S or NR^6 ;

each Q^1 and Q^2 is independently NR^6 , O, S, $C(=O)$, or CR^7R^{7a} ;

each Q^3 is independently N or CR^7 ;

each e is independently 0, 1, 2, 3 or 4 with the proviso that where X^3 is O, S or NR^6 , e is 1;

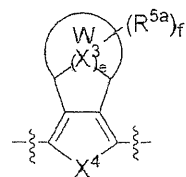
each f is independently 0, 1, 2 or 3;

each R^{5a} is independently H, deuterium, hydroxy, amino, F, Cl, Br, I, cyano, C_{1-6} alkoxy, C_{1-6} alkylamino, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, mercapto, nitro, C_{6-10} aralkyl, C_{6-10} arylamino, C_{1-9} heteroaryl, C_{6-10} aryl- C_{1-6} -alkylamino, C_{1-9} heteroaryl- C_{1-6} -alkylamino, C_{1-9} heteroaryloxy, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkoxy, C_{1-9} heteroaryl- C_{1-6} -alkoxy, C_{2-10} heterocyclyloxy, C_{2-10} heterocyclyl- C_{1-6} -alkoxy, C_{2-10} heterocyclylamino, C_{2-10} heterocyclyl- C_{1-6} -alkylamino or C_{6-10} aryloxy;

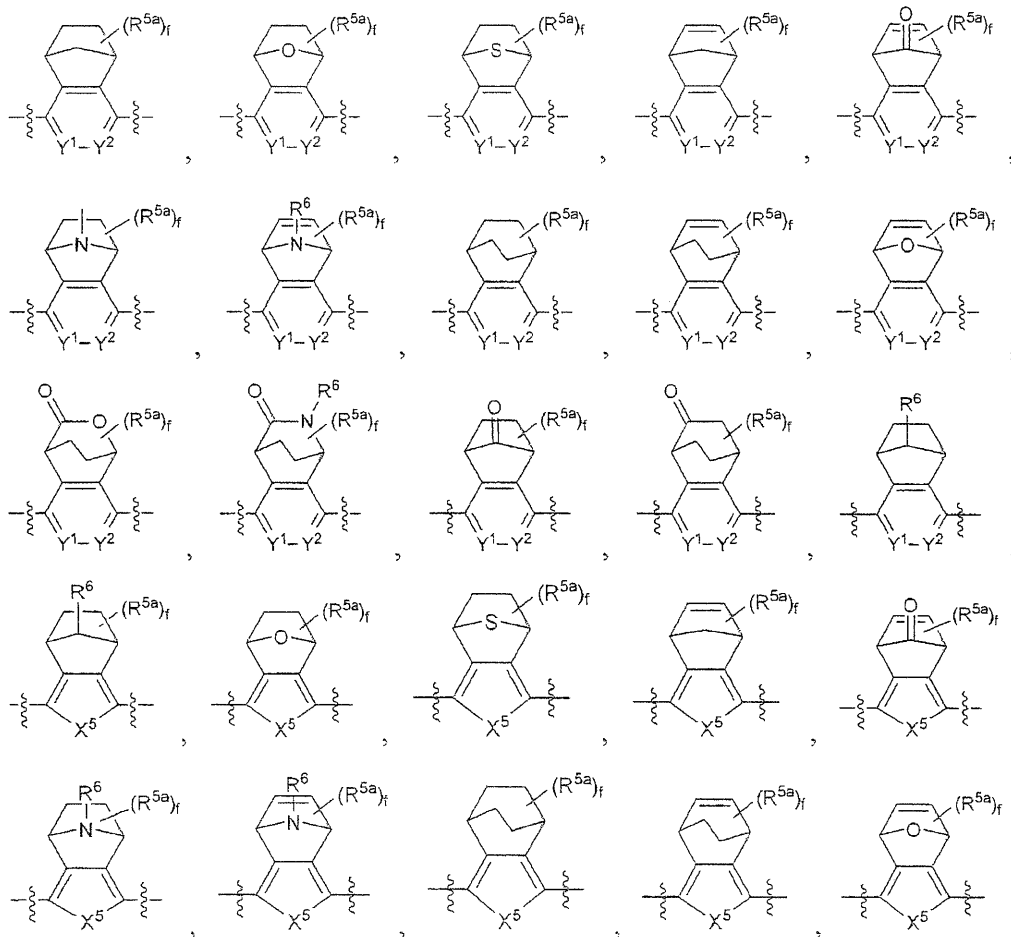
each R^6 is independently H, deuterium, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-6} -alkyl, C_{1-6} alkylamino- C_{1-6} -alkyl, C_{1-6} alkylthio- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl, C_{6-10} aryl, C_{3-9} heterocyclyl or C_{3-8} carbocyclyl; and

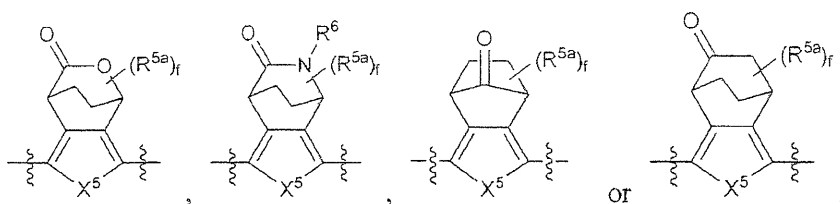
each R^7 and R^{7a} is independently H, deuterium, F, Cl, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{1-6} haloalkyl, hydroxy, amino, C_{1-6} alkoxy, C_{6-10} aryl, C_{2-9} heterocyclyl, C_{3-9} cycloalkyl, C_{6-10} aryloxy, C_{2-9} heterocyclyloxy, C_{6-10} arylamino, C_{2-9} heterocyclylamino, C_{3-9} cycloalkylamino, C_{1-9} heteroaryl or C_{3-9} carbocyclyl.

3. The compound according to claim 2, wherein



is





wherein each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-6} alkoxy, C_{1-6} alkyl, C_{6-10} aryl, $-CF_3$, $-OCF_3$ nitro, or C_{1-6} alkylamino;

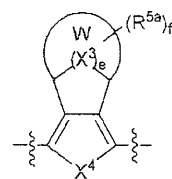
each Y^1 and Y^2 is independently N or CR^7 ;

each X^5 is independently CR^7R^{7a} , O, S, $C(=O)$ or NR^6 ;

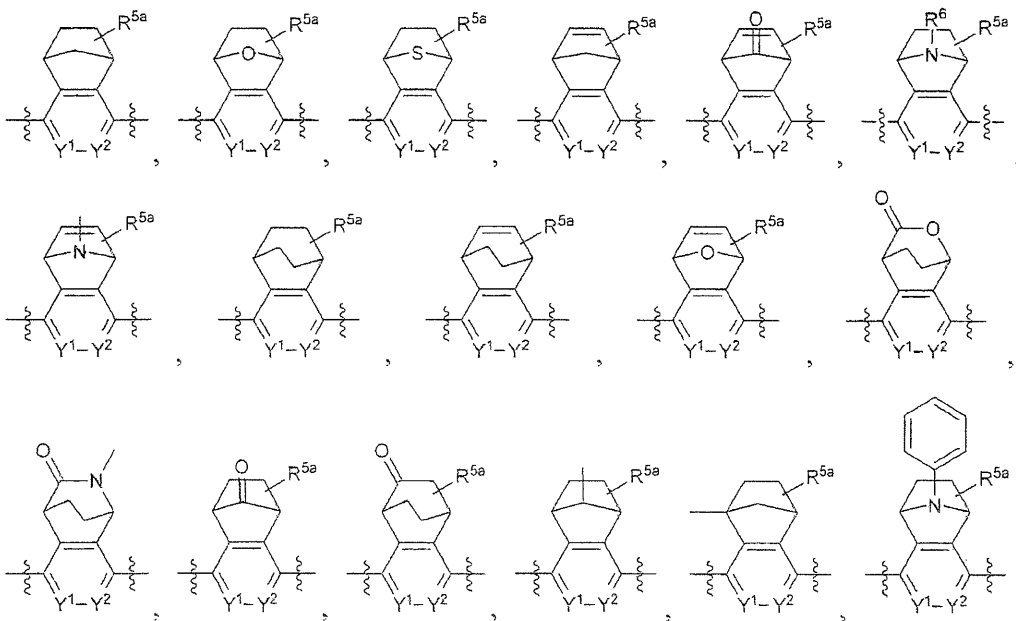
each f is independently 0, 1, 2 or 3; and

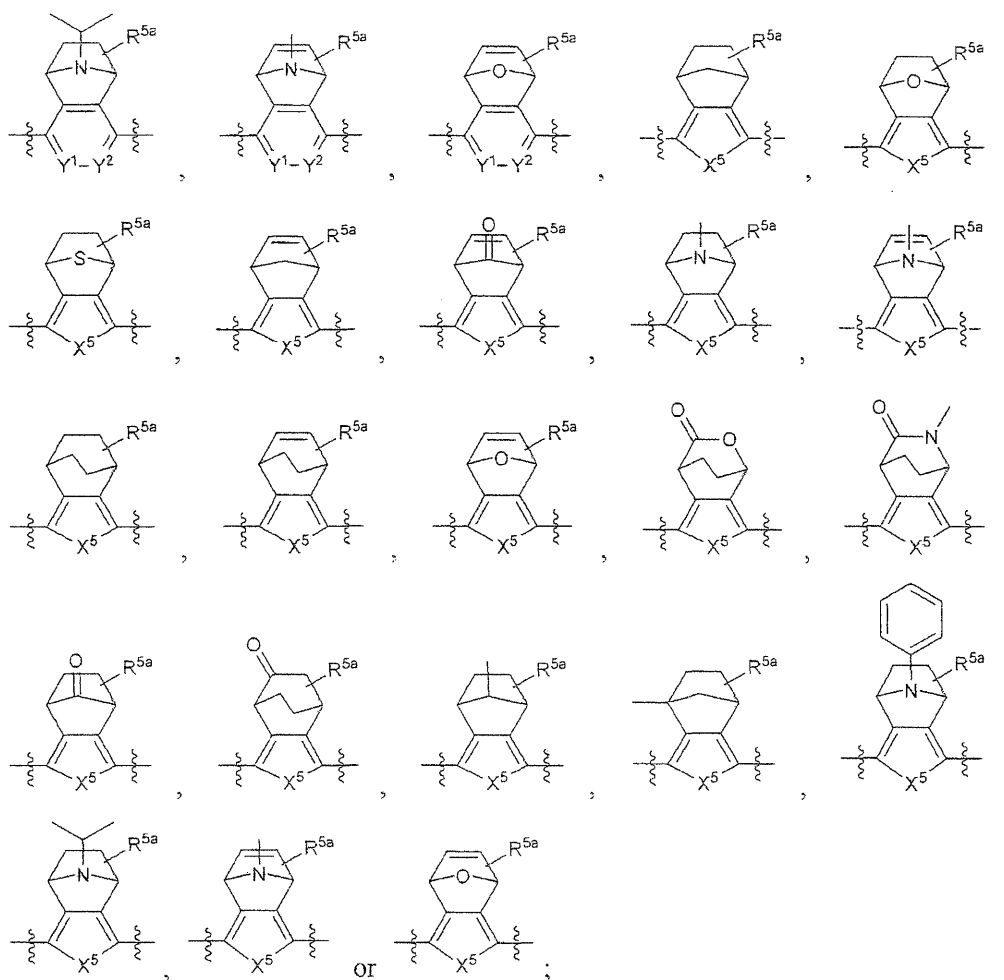
each R^6 is independently H, deuterium, C_{1-4} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-4} -alkyl, C_{6-10} aryl.

4. The compound according to claim 3, wherein



is





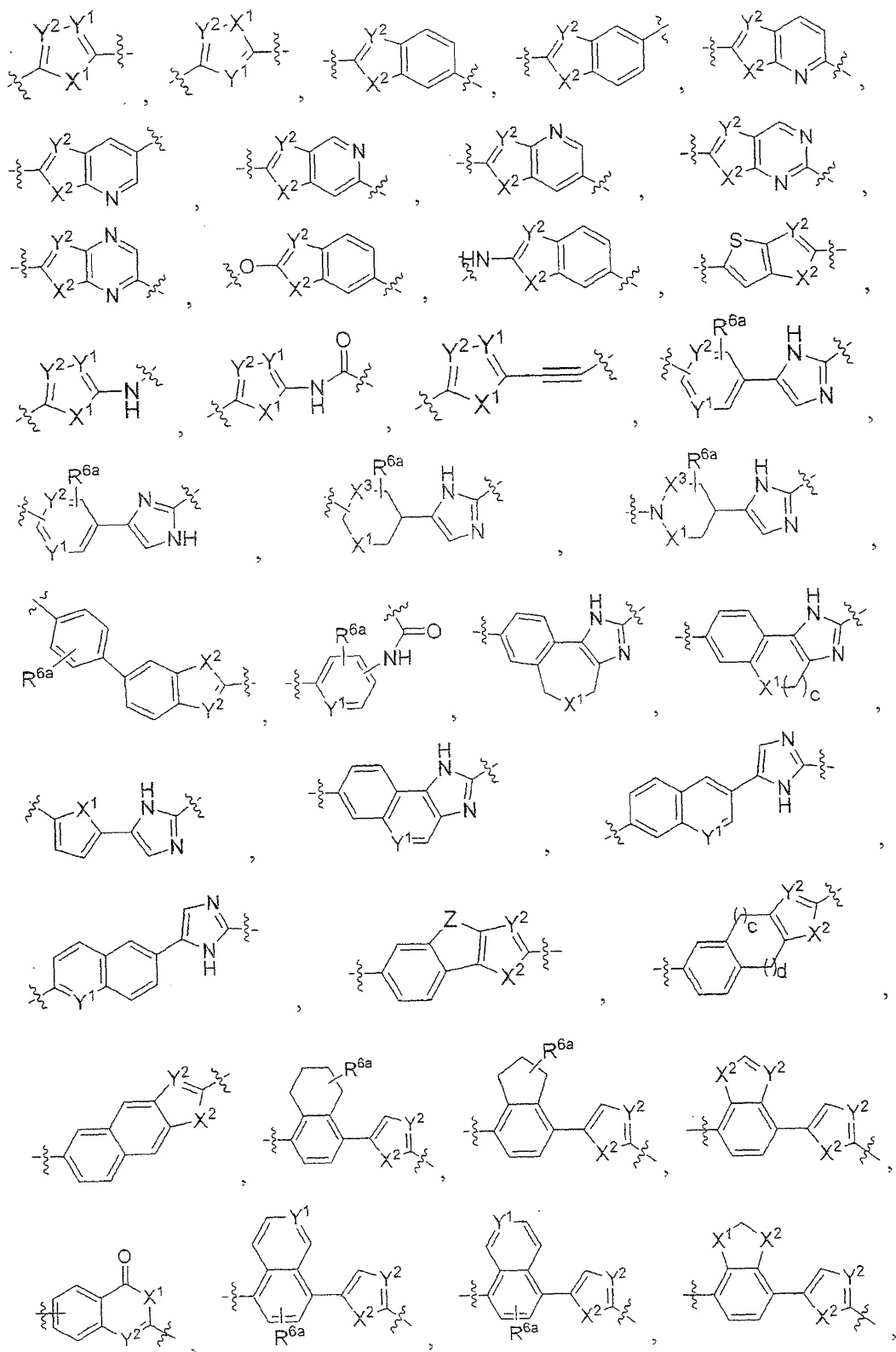
wherein each R^{5a} is independently H, deuterium, oxo ($=O$), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-4} alkyl, $-CF_3$, $-OCF_3$, mercapto, nitro, or C_{1-4} alkylamino;

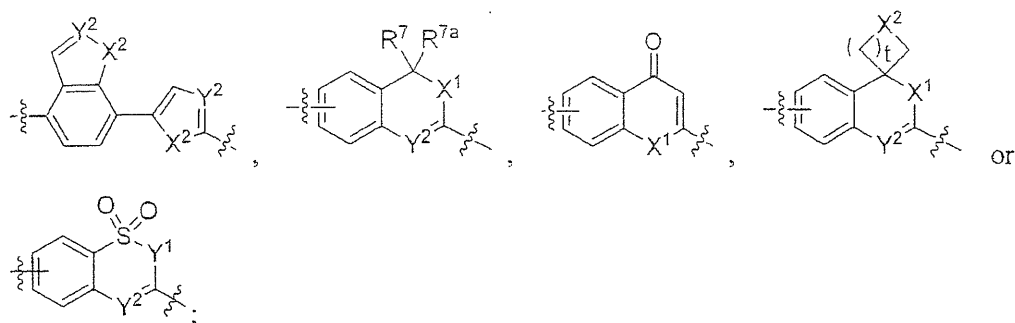
each Y^1 and Y^2 is independently N or CH;

each X^5 is independently CH_2 , O, S or NR^6 ; and

each R^6 is independently H, deuterium, C_{1-4} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-4} -alkyl, C_{1-6} alkylamino- C_{1-4} -alkyl, C_{1-6} alkylthio- C_{1-4} -alkyl, C_{6-10} aryl- C_{1-4} alkyl, C_{1-9} heteroaryl, C_{6-10} aryl, C_{3-9} heterocyclyl or C_{3-8} carbocyclyl.

5. The compound according to claim 1, wherein each of A and A' is independently





wherein each R^5 is independently H, deuterium, hydroxy, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-8} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-6} alkoxy, C_{1-6} alkyl-OC(=O)-, C_{1-6} alkyl-C(=O)-, carbamoyl, C_{1-6} alkyl-OS(=O)_r-, C_{1-6} alkyl-S(=O)_rO-, C_{1-6} alkyl-S(=O)_r-, or aminosulfonyl;

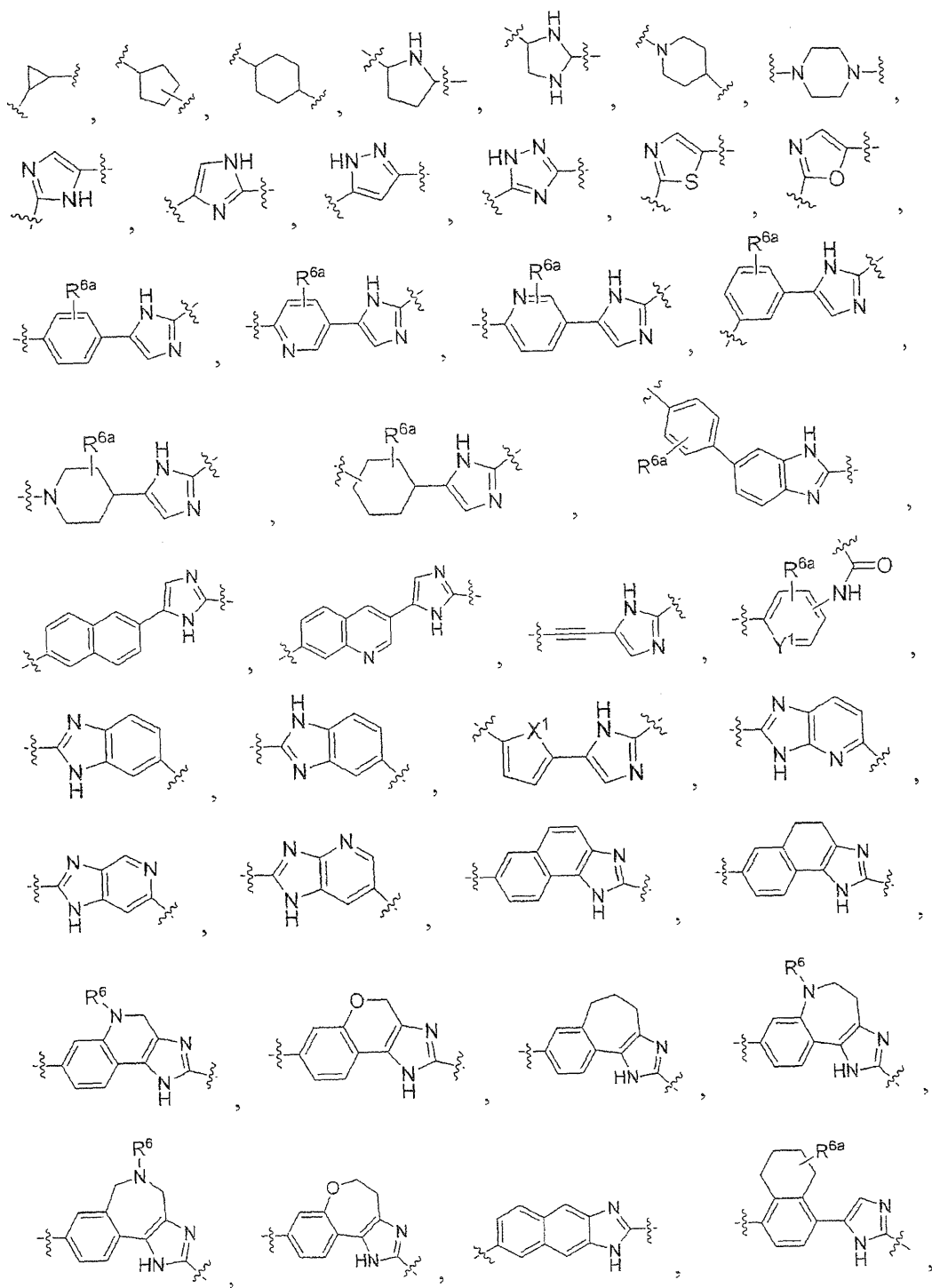
each R^{6a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{6-10} aryl, C_{1-9} heteroaryl, C_{1-6} alkoxy, C_{1-6} alkylamino, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, mercapto, nitro, C_{6-10} aryl- C_{1-6} -alkyl, C_{6-10} arylamino, C_{1-9} heteroarylamino, or C_{6-10} aryloxy;

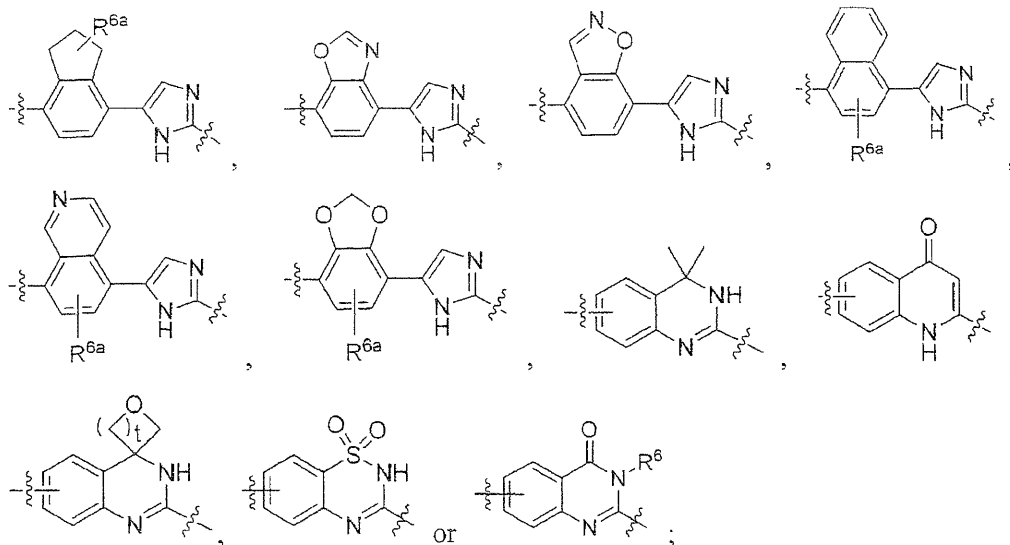
each R^7 and R^{7a} is independently H, deuterium, F, Cl, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{1-6} haloaliphatic, hydroxy C_{1-6} alkyl, amino C_{1-6} alkyl, C_{1-6} alkoxy- C_{1-6} -alkyl, C_{1-6} alkylamino- C_{1-6} -alkyl, C_{1-6} alkylthio- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heterocyclyl- C_{1-6} -alkyl, C_{3-8} cycloalkyl- C_{1-6} -alkyl, C_{6-10} aryloxy- C_{1-6} -alkyl, C_{2-10} heterocyclyloxy- C_{1-6} -alkyl, C_{3-8} cycloalkyloxy- C_{1-6} -alkyl, C_{6-10} arylamino- C_{1-6} -alkyl, C_{2-10} heterocyclylamino- C_{1-6} -alkyl, C_{3-8} cycloalkylamino- C_{1-6} -alkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl, or C_{3-8} carbocyclyl; and

each R^8 and R^{8a} is independently H, deuterium, hydroxy, cyano, nitro, F, Cl, Br, I, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-6} alkoxy, C_{1-6} alkyl-OC(=O)-, C_{1-6} alkyl-C(=O)-, carbamoyl, C_{1-6} alkyl-OS(=O)_r-, C_{1-6} alkyl-S(=O)_rO-, C_{1-6} alkyl-S(=O)_r-, or aminosulfonyl.

6. The compound according to claim 1, wherein each of A and A' is

independently





wherein X^1 is O or S;

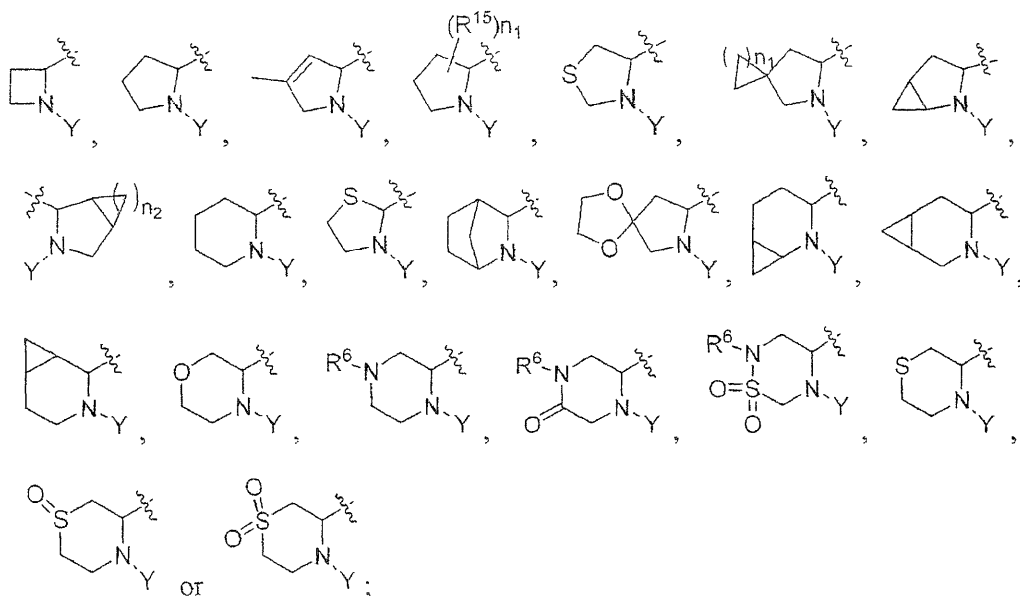
each Y^1 is N or CR^7 ;

each R^6 is independently H, deuterium, C_{1-4} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-4} -alkyl, C_{1-6} alkylamino- C_{1-4} -alkyl, C_{1-6} alkylthio- C_{1-4} -alkyl, C_{6-10} aryl- C_{1-4} -alkyl, C_{1-9} heteroaryl, C_{6-10} aryl, C_{3-9} heterocyclyl or C_{3-8} carbocyclyl;

each R^{6a} is independently H, deuterium, oxo ($=O$), hydroxy, amino, F, Cl, Br, I, cyano, $R^{7a}R^7N$ -, C_{1-6} alkoxy, C_{1-6} alkylamino, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, mercapto or nitro; and

each R^7 and R^{7a} is independently H, deuterium, F, Cl, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{1-6} haloalkyl, hydroxy C_{1-6} alkyl, amino C_{1-6} alkyl, C_{1-6} alkoxy- C_{1-6} -alkyl, C_{1-6} alkylamino- C_{1-6} -alkyl, or C_{1-6} alkylthio- C_{1-6} -alkyl.

7. The compound according to claim 1, wherein the R^1 , R^2 and $X-CH$ together form one of the following monovalent groups:

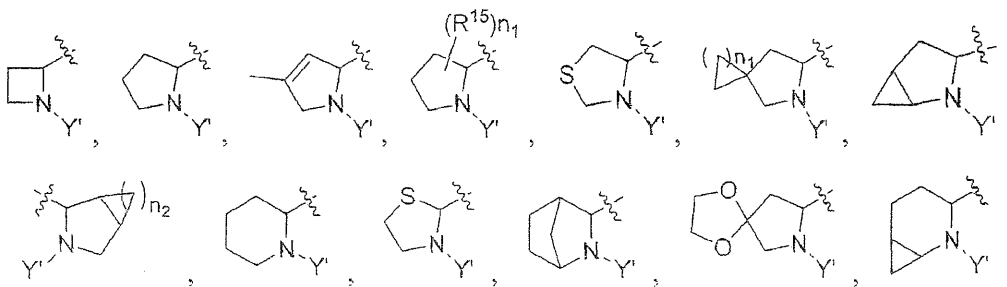


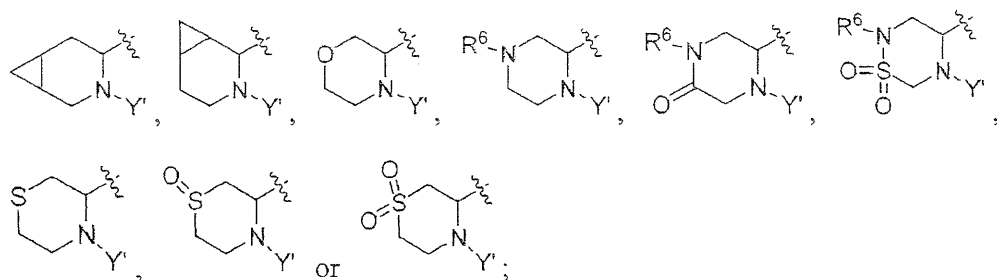
wherein each R^{15} is independently H, deuterium, F, Cl, Br, I, cyano, hydroxy, C_{1-3} alkyl, C_{1-3} haloalkyl, C_{1-3} alkoxy, C_{1-3} alkylamino, C_{1-3} alkylthio, C_{6-10} arylamino, C_{6-10} aryloxy, C_{1-9} heteroaryl, C_{1-9} heteroaryloxy, C_{1-9} heteroaryl- C_{1-3} -alkyl, or C_{2-10} heterocyclyl;

each R^6 is independently H, deuterium, C_{1-4} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-4} -alkyl, C_{1-6} alkylamino- C_{1-4} -alkyl, C_{1-6} alkylthio- C_{1-4} -alkyl, C_{6-10} aryl- C_{1-4} -alkyl, C_{1-9} heteroaryl, C_{6-10} aryl, C_{3-9} heterocyclyl or C_{3-8} carbocyclyl; and

each n_1 and n_2 is independently 1, 2, 3 or 4.

8. The compound according to claim 1, wherein the R^3 , R^4 and $X'-CH$ together form one of the following monovalent groups:



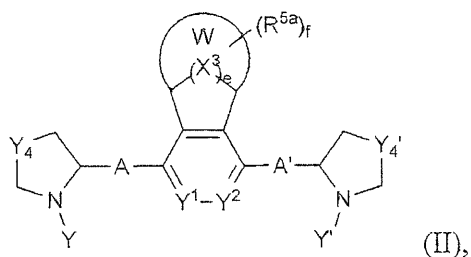
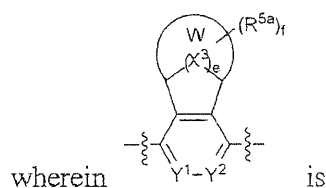


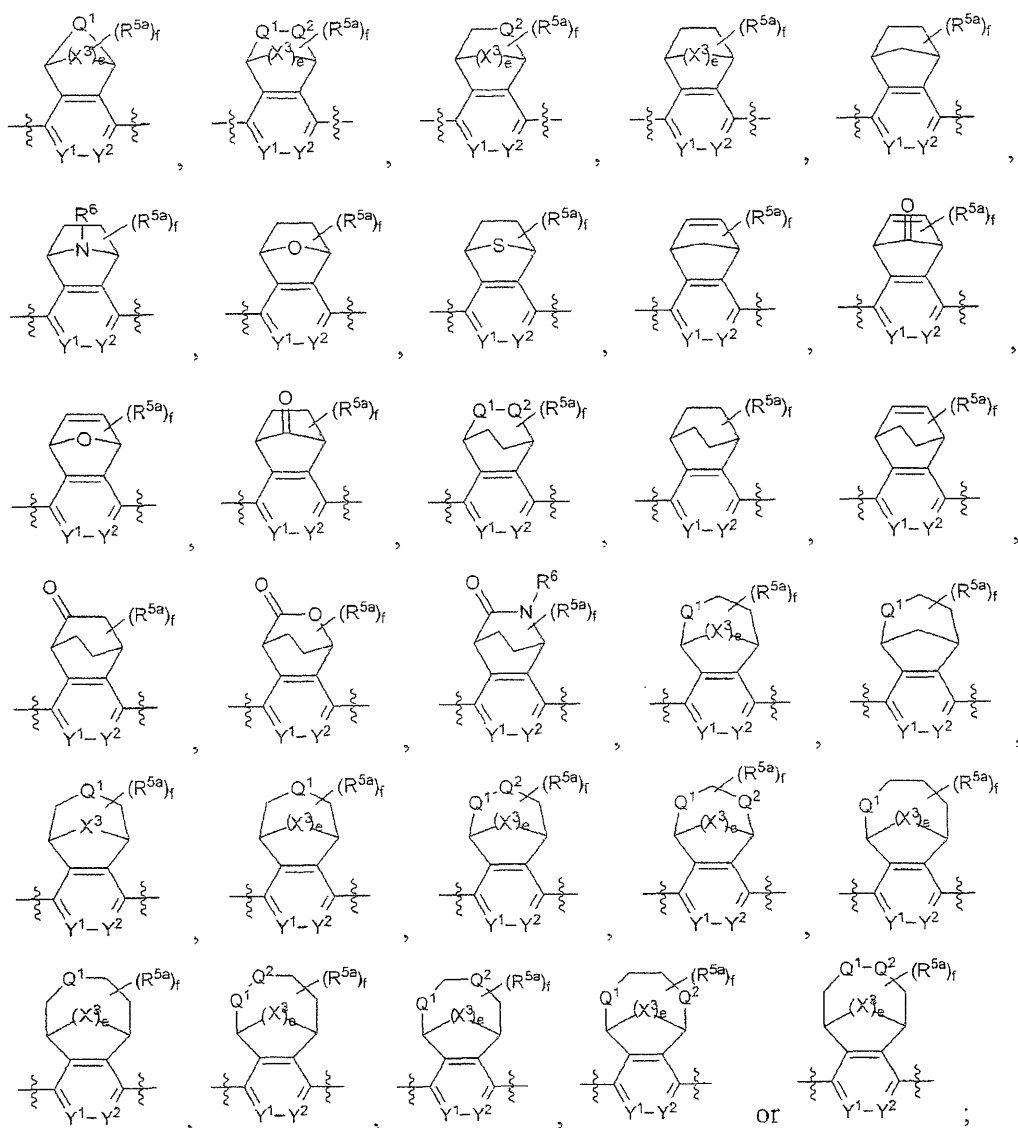
wherein each R^{15} is independently H, deuterium, F, Cl, Br, I, cyano, hydroxy, C_{1-3} alkyl, C_{1-3} haloalkyl, C_{1-3} alkoxy, C_{1-3} alkylamino, C_{1-3} alkylthio, C_{6-10} arylamino, C_{6-10} aryloxy, C_{1-9} heteroaryl, C_{1-9} heteroaryloxy, C_{1-9} heteroaryl- C_{1-3} -alkyl, or C_{2-10} heterocyclyl;

each R^6 is independently H, deuterium, C_{1-4} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} aminoalkyl, C_{1-6} alkoxy- C_{1-4} -alkyl, C_{1-6} alkylamino- C_{1-4} -alkyl, C_{1-6} alkylthio- C_{1-4} -alkyl, C_{6-10} aryl- C_{1-4} -alkyl, C_{1-9} heteroaryl, C_{6-10} aryl, C_{2-10} heterocyclyl or C_{3-8} carbocyclyl; and

each n_1 and n_2 is independently 1, 2, 3 or 4.

9. The compound according to claim 1 having Formula (II):





wherein each Q^1 and Q^2 is independently NR^6 , O, S, $C(=O)$ or CH_2 ;

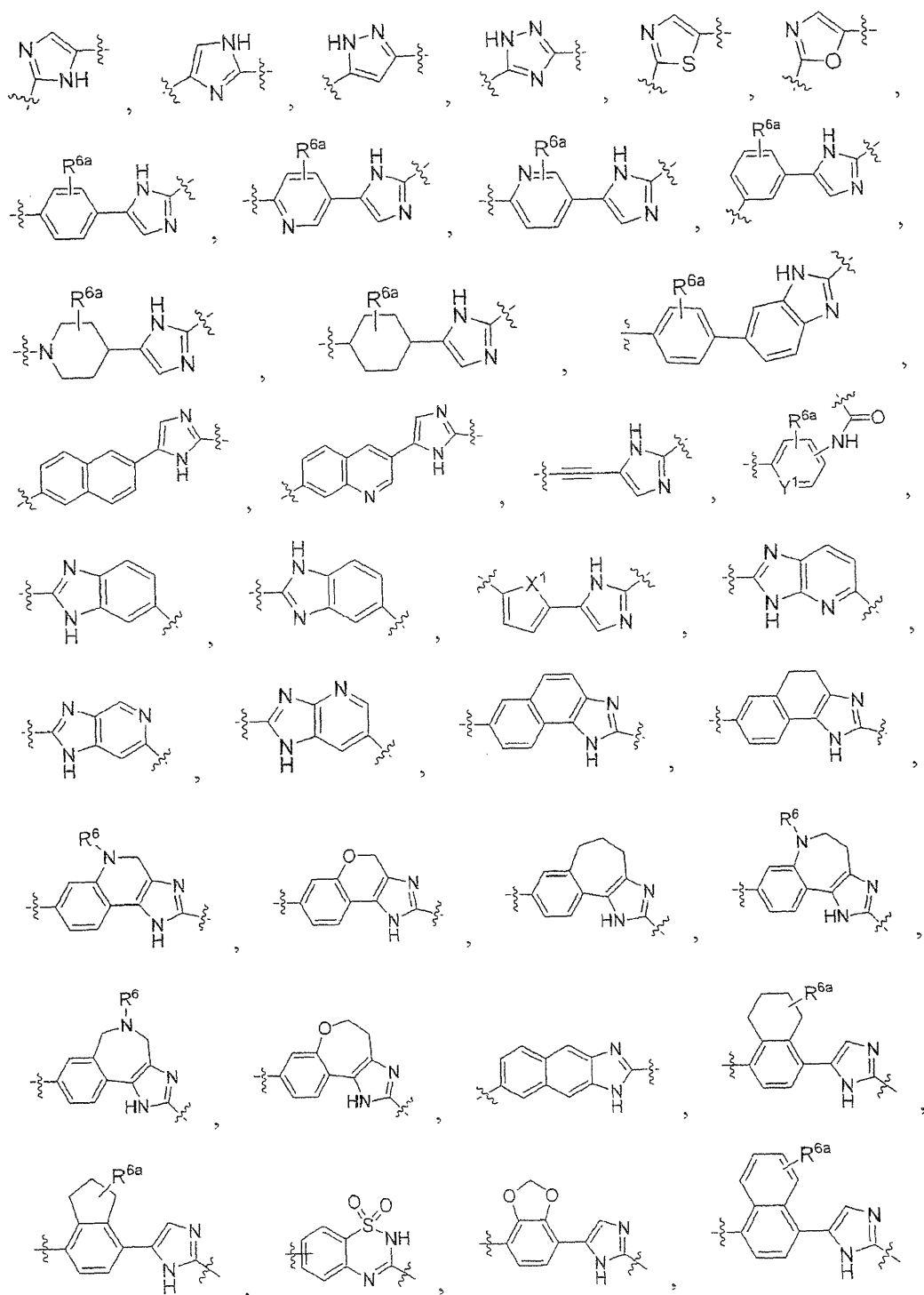
each X^3 is independently O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ;

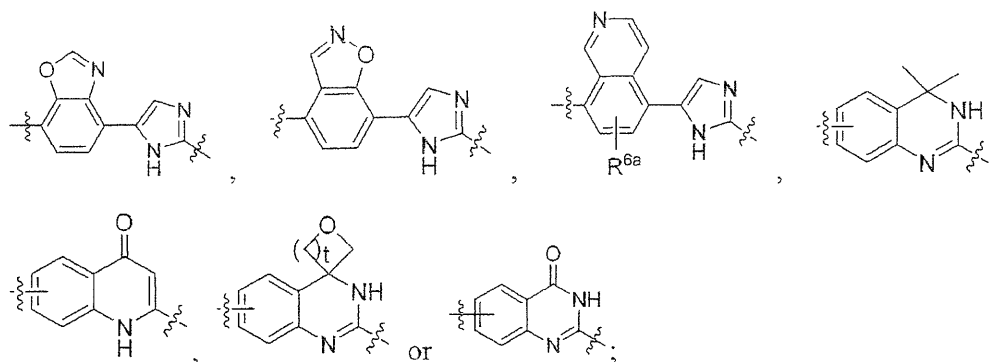
each e is independently 0, 1, 2, 3 or 4 with the proviso that where X^3 is O, S or NR^6 , e is 1;

each Y^1 and Y^2 is independently N or CR^7 ;

each f is independently 0, 1, 2, 3 or 4;

each of A and A' is independently





each R^5 is independently H, deuterium, hydroxy, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-6} alkoxy;

each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-6} alkoxy, C_{1-6} alkyl, $-CF_3$, $-OCF_3$, nitro, C_{1-6} alkylamino, C_{3-10} cycloalkyl;

each R^6 is independently H, deuterium, C_{1-6} aliphatic, C_{1-6} alkoxy- C_{1-6} -aliphatic, C_{1-6} alkylamino- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl, C_{3-10} cycloalkyl- C_{1-6} -alkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl or C_{3-10} carbocyclyl;

each R^{6a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-6} alkylacyl, C_{1-6} alkylacyloxy, C_{1-6} alkoxyacyl, C_{1-6} alkoxy, C_{1-6} alkyl, C_{6-10} aryl, $-CF_3$, $-OCF_3$, mercapto, nitro, C_{1-6} alkylamino, C_{3-10} cycloalkyl or C_{6-10} aryloxy;

each R^7 and R^{7a} is independently H, deuterium, C_{1-6} aliphatic, C_{1-6} heteroalkyl, C_{1-6} alkoxy- C_{1-6} -aliphatic, C_{1-6} alkylamino- C_{1-6} -aliphatic, C_{6-10} aryl- C_{1-6} -aliphatic, C_{2-10} heterocyclyl- C_{1-6} -aliphatic, C_{3-10} -cycloalkyl- C_{1-6} -aliphatic, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl or C_{3-10} carbocyclyl;

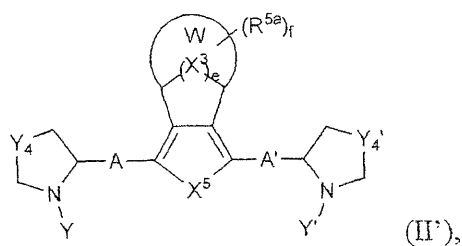
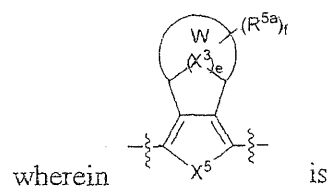
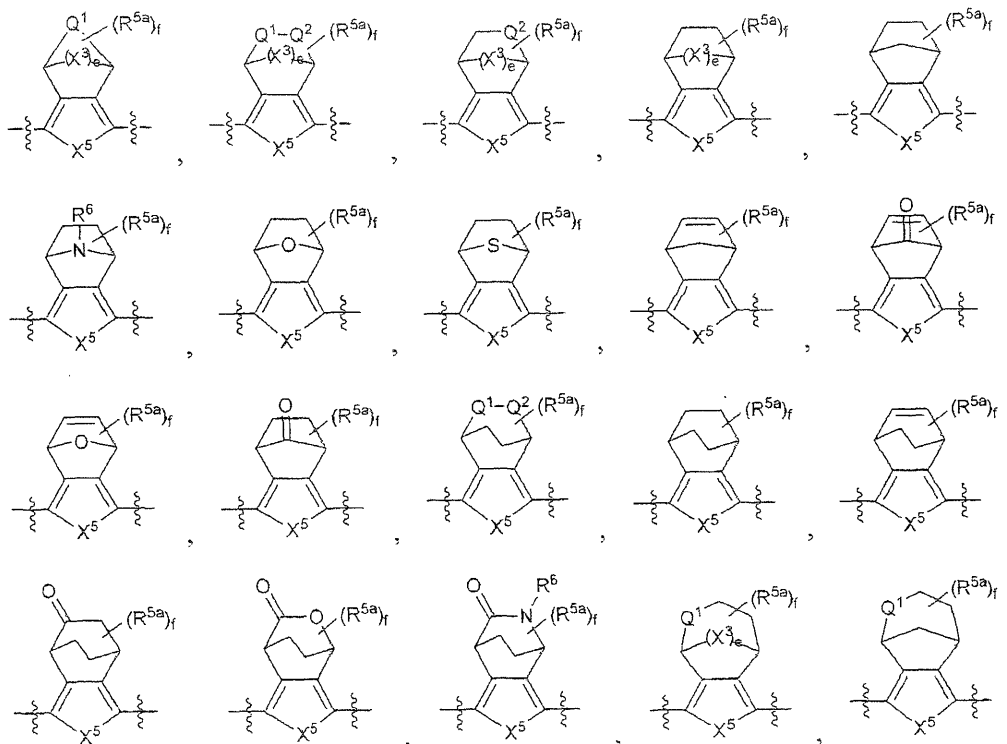
each of Y_4 and Y_4' is independently a bond, O, S, $-(CH_2)_n-$, $-CH=CH-$, $-S(=O)_r-$, $-CH_2O-$, $-CH_2S-$, $-CH_2S(=O)_r-$, $-CF_2-$, $-CHR^{5a}-$ or $-CH_2N(R^6)-$;

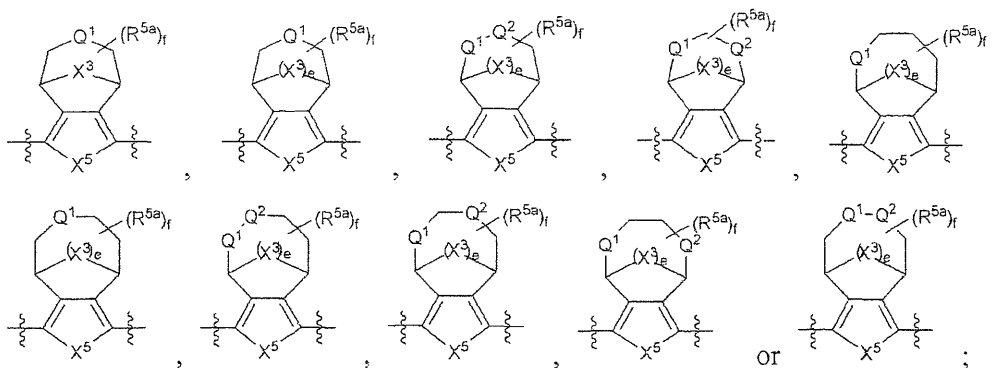
each n is independently 0, 1, 2 or 3;

each p is independently 0, 1, 2 or 3; and

each r is independently 0, 1 or 2.

10. The compound according to claim 1 having Formula (II'):





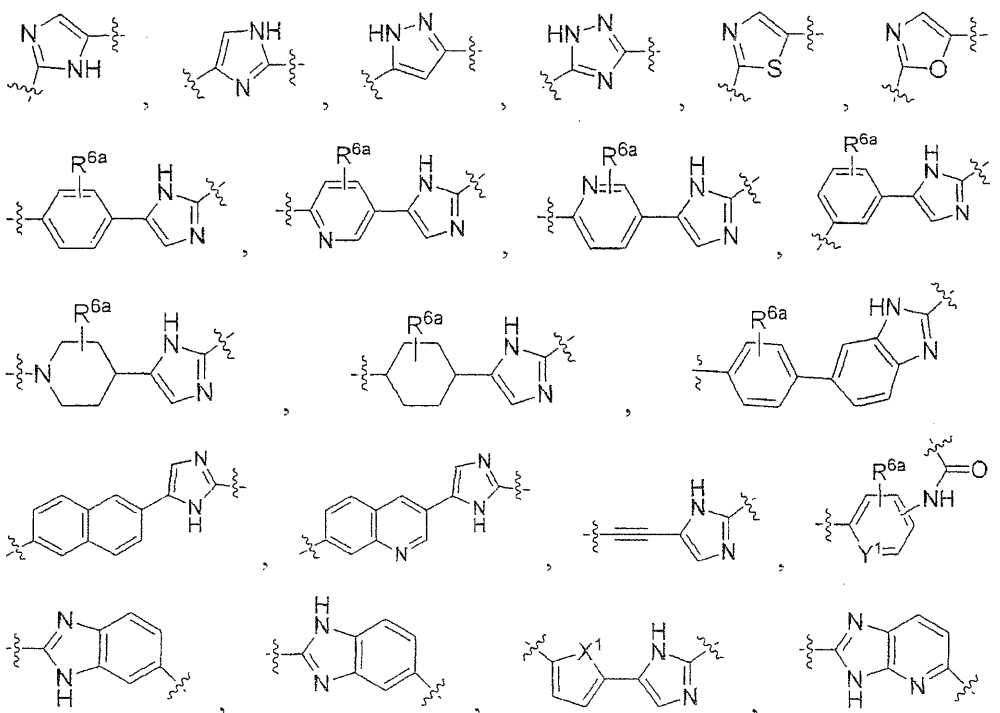
wherein each Q^1 and Q^2 is independently NR^6 , O, S, $C(=O)$ or CH_2 ;

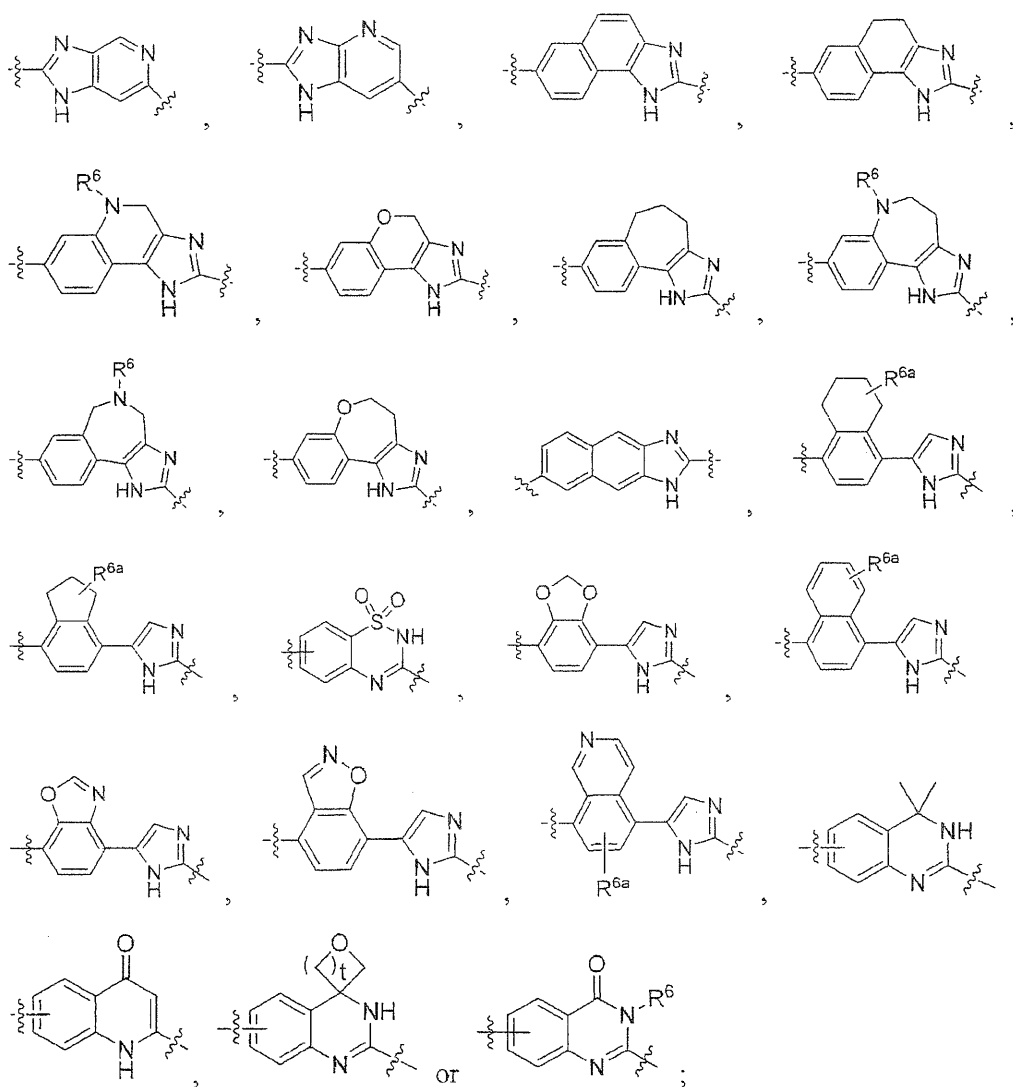
each X^3 is independently O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ; e is 0, 1, 2, 3 or 4 with the proviso that where X^3 is O, S or NR^6 , e is 1;

each X^5 is independently CR^7R^{7a} , O, S or NR^6 ;

each f is independently 0, 1, 2, 3 or 4;

each of A and A' is independently





each R^5 is independently H, deuterium, hydroxy, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-6} alkoxy;

each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-6} alkoxy, C_{1-6} alkyl, C_{6-10} aryl, $-CF_3$, $-OCF_3$, , nitro, C_{1-6} alkylamino, C_{3-10} cycloalkyl;

each R^6 is independently H, deuterium, C_{1-6} alkyl, C_{1-6} alkoxy- C_{1-6} -alkyl, C_{1-6} alkylamino- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl, C_{3-10} cycloalkyl- C_{1-6} -alkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10}

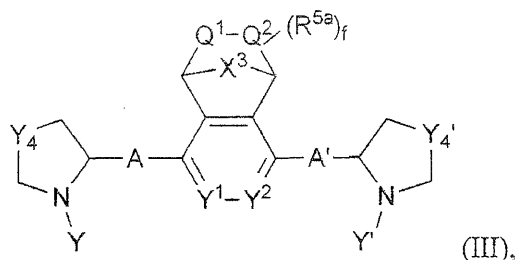
heterocyclyl or C₃₋₁₀ carbocyclyl;

each R^{6a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C₁₋₆ alkylacyl, C₁₋₆ alkylacyloxy, C₁₋₆ alkoxyacyl, C₁₋₆ alkoxy, C₁₋₆ alkyl, C₆₋₁₀ aryl, -CF₃, -OCF₃, mercapto, nitro, C₁₋₆ alkylamino, C₃₋₁₀ cycloalkyl or C₆₋₁₀ aryloxy;

each R⁷ and R^{7a} is independently H, deuterium, C₁₋₆ alkyl, C₁₋₆ heteroalkyl, C₁₋₆ alkoxy-C₁₋₆-alkyl, C₁₋₆ alkylamino-C₁₋₆-alkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl, C₃₋₁₀ cycloalkyl-C₁₋₆-alkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀ heterocyclyl or C₃₋₁₀ carbocyclyl;

each of Y₄ and Y₄' is independently a bond, O, S, -(CH₂)_n-, -CH=CH-, -S(=O)_r-, -CH₂O-, -CH₂S-, -CH₂S(=O)_r-, -CF₂-, -CHR^{5a}- or -CH₂N(R⁶)-

11. The compound according to claim 9 having Formula (III):



wherein each Q¹ and Q² is independently O, S, C(=O), NR⁶ or CH₂;

X³ is O, S, NR⁶, C(=O) or CR⁷R^{7a};

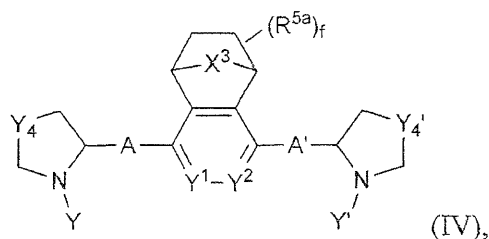
each R⁶ is independently H, deuterium, C₁₋₆ alkyl, C₁₋₆ alkoxy-C₁₋₆-alkyl, C₁₋₆ alkylamino-C₁₋₆-alkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₉ heteroaryl-C₁₋₆-alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl, C₃₋₁₀ cycloalkyl-C₁₋₆-alkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀ heterocyclyl or C₃₋₁₀ carbocyclyl;

each R⁷ and R^{7a} is independently H, deuterium, C₁₋₆ alkyl, C₁₋₆ heteroalkyl, C₁₋₆ alkoxy-C₁₋₆-alkyl, C₁₋₆ alkylamino-C₁₋₆-alkyl, C₆₋₁₀ aryl-C₁₋₆ alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl, C₃₋₁₀ cycloalkyl-C₁₋₆-alkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀

heterocyclyl or C₃₋₁₀ carbocyclyl; and

f is 0, 1, 2, 3 or 4.

12. The compound according to claim 9 having Formula (IV):



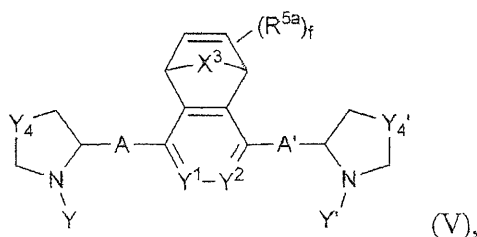
wherein X³ is O, S, NR⁶, C(=O) or CR⁷R^{7a},

each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C₁₋₆ alkylacyl, C₁₋₆ alkylacyloxy, C₁₋₆ alkoxyacyl, C₁₋₆ alkoxy, C₁₋₆ alkyl, C₆₋₁₀ aryl, -CF₃, -OCF₃, mercapto, nitro, C₁₋₆ alkylamino, C₃₋₁₀ cycloalkyl or C₆₋₁₀ aryloxy;

f is 0, 1, 2, or 3; and

each R⁷ and R^{7a} is independently H, deuterium, C₁₋₄ alkyl, C₁₋₄ heteroalkyl, C₁₋₆ alkoxyalkyl, C₁₋₆ alkylaminoalkyl, C₆₋₁₀ aryl, C₂₋₁₀ heterocyclyl, C₃₋₈ cycloalkyl, C₁₋₉ heteroaryl.

13. The compound according to claim 9 having Formula (V):



wherein X³ is O, S, NR⁶, C(=O) or CR⁷R^{7a},

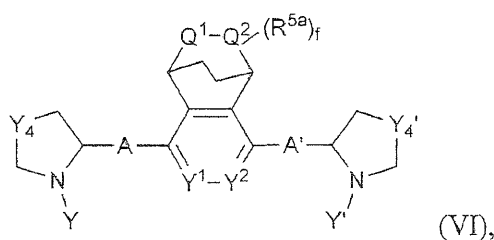
each R^{5a} is independently H, deuterium, oxo (=O), hydroxy, amino, F, Cl, Br, I, cyano, C₁₋₄ alkylacyl, C₁₋₄ alkylacyloxy, C₁₋₄ alkoxyacyl, C₁₋₄ alkoxy, C₁₋₄ alkyl, C₆₋₁₀

aryl, $-\text{CF}_3$, $-\text{OCF}_3$, mercapto, nitro, C_{1-6} alkylamino, C_{3-8} cycloalkyl or C_{6-10} aryloxy;

f is 0, 1, 2, or 3; and

each R^7 and R^{7a} is independently H, deuterium, C_{1-4} alkyl, C_{1-4} heteroalkyl, C_{1-6} alkoxyalkyl, C_{1-6} alkylaminoalkyl, C_{6-10} aryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{1-9} heteroaryl.

14. The compound according to claim 9 having Formula (VI):



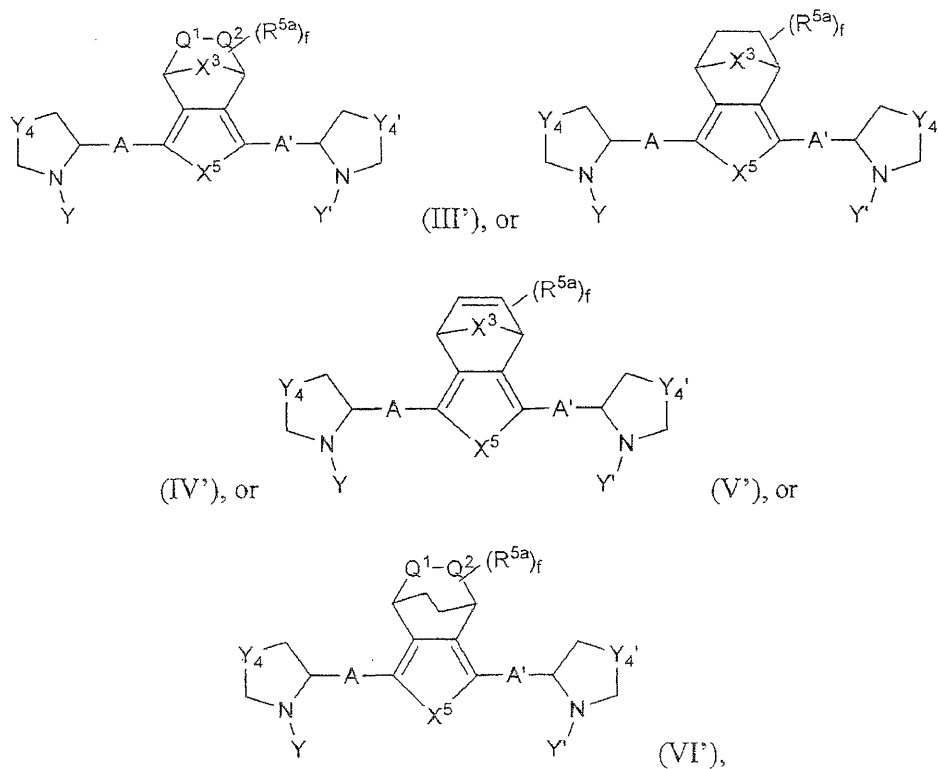
wherein each Q^1 and Q^2 is independently O, S, $\text{C}(=\text{O})$, NR^6 or CH_2 ;

each R^{5a} is independently H, deuterium, oxo ($=\text{O}$), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-4} alkylacyl, C_{1-4} alkylacyloxy, C_{1-4} alkoxyacyl, C_{1-4} alkoxy, C_{1-4} alkyl, C_{6-10} aryl, $-\text{CF}_3$, $-\text{OCF}_3$, mercapto, nitro, C_{1-6} alkylamino, C_{3-8} cycloalkyl or C_{6-10} aryloxy;

each R^6 is independently H, deuterium, $\text{R}^7\text{R}^{7a}\text{NC}(=\text{O})-$, $\text{R}^7\text{OC}(=\text{O})-$, $\text{R}^7\text{C}(=\text{O})-$, $\text{R}^7\text{R}^{7a}\text{NS}(=\text{O})-$, $\text{R}^7\text{OS}(=\text{O})-$, $\text{R}^7\text{S}(=\text{O})-$, $\text{R}^7\text{R}^{7a}\text{NS}(=\text{O})_2-$, $\text{R}^7\text{OS}(=\text{O})_2-$, $\text{R}^7\text{S}(=\text{O})_2-$, C_{1-6} alkyl, C_{1-6} alkoxy- C_{1-6} -alkyl, C_{1-6} alkylamino- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl, C_{3-10} cycloalkyl- C_{1-6} -alkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl or C_{3-10} carbocyclyl; and

f is 0, 1, 2, 3 or 4.

15. The compound according to claim 10 having Formula (III'), or Formula (IV'), or Formula (V'), or Formula (VI') :



wherein each Q^1 and Q^2 is independently O, S, $C(=O)$, NR^6 or CH_2 ;

X^3 is O, S, NR^6 , $C(=O)$ or CR^7R^{7a} ;

f is 0, 1, 2 or 3;

X^5 is CH_2 , O, S or NR^6 ;

each R^{5a} is independently H, deuterium, oxo ($=O$), hydroxy, amino, F, Cl, Br, I, cyano, C_{1-4} alkylacyl, C_{1-4} alkylacyloxy, C_{1-4} alkoxyacyl, C_{1-4} alkoxy, C_{1-4} alkyl, C_{6-10} aryl, $-CF_3$, $-OCF_3$, mercapto, nitro, C_{1-6} alkylamino, C_{3-8} cycloalkyl or C_{6-10} aryloxy;

each R^6 is independently H, deuterium, C_{1-6} alkyl, C_{1-6} alkoxy- C_{1-6} -alkyl, C_{1-6} alkylamino- C_{1-6} -alkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl, C_{3-10} cycloalkyl- C_{1-6} -alkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl or C_{3-10} carbocyclyl; and

each R^7 and R^{7a} is independently H, deuterium, C_{1-4} alkyl, C_{1-4} heteroalkyl, C_{1-6}

alkoxyalkyl, C₁₋₆ alkylaminoalkyl, C₆₋₁₀ aryl, C₂₋₁₀ heterocyclyl, C₃₋₈ cycloalkyl, C₁₋₉ heteroaryl.

16. The compound according to any one of claims 1 to 15, wherein each of Y and Y' is independently $-\text{[U-(CR}^9\text{R}^{9a})_t\text{-N(R}^{10})\text{-(CR}^9\text{R}^{9a})_k\text{-U-(CR}^9\text{R}^{9a})_t\text{-N(R}^{11})\text{-(CR}^9\text{R}^{9a})_t\text{-R}^{12}, -\text{U-(CR}^9\text{R}^{9a})_t\text{-R}^{12}$ or $-\text{[U-(CR}^9\text{R}^{9a})_t\text{-N(R}^{10})\text{-(CR}^9\text{R}^{9a})_k\text{-U-(CR}^9\text{R}^{9a})_t\text{-O-(CR}^9\text{R}^{9a})_t\text{-R}^{12}$; or

wherein each of Y and Y' is independently $-\text{[U-(CR}^9\text{R}^{9a})_t\text{-N(R}^{10})\text{-(CR}^9\text{R}^{9a})_k\text{-U-(CR}^9\text{R}^{9a})_t\text{-N(R}^{11})\text{-(CR}^9\text{R}^{9a})_t\text{-R}^{12}$; or

wherein each of Y and Y' is independently $-\text{U-(CR}^9\text{R}^{9a})_t\text{-N(R}^{10})\text{-(CR}^9\text{R}^{9a})_t\text{-U-(CR}^9\text{R}^{9a})_t\text{-N(R}^{11})\text{-(CR}^9\text{R}^{9a})_t\text{-R}^{12}$; or

wherein each of Y and Y' is independently $-\text{U-(CR}^9\text{R}^{9a})_t\text{-N(R}^{11})\text{-(CR}^9\text{R}^{9a})_t\text{-R}^{12}$; or

wherein each of Y and Y' is independently $-\text{[C(=O)-(CR}^9\text{R}^{9a})_t\text{-N(R}^{10})\text{-(CR}^9\text{R}^{9a})_k\text{-U-(CR}^9\text{R}^{9a})_t\text{-N(R}^{11})\text{-(CR}^9\text{R}^{9a})_t\text{-R}^{12}$; or

wherein each of Y and Y' is independently $-\text{C(=O)-(CR}^9\text{R}^{9a})_t\text{-N(R}^{10})\text{-(CR}^9\text{R}^{9a})_t\text{-U-(CR}^9\text{R}^{9a})_t\text{-N(R}^{11})\text{-(CR}^9\text{R}^{9a})_t\text{-R}^{12}$; or

wherein each of Y and Y' is independently $-\text{[C(=O)-(CR}^9\text{R}^{9a})_t\text{-N(R}^{10})\text{-(CR}^9\text{R}^{9a})_k\text{-C(=O)-(CR}^9\text{R}^{9a})_t\text{-N(R}^{11})\text{-(CR}^9\text{R}^{9a})_t\text{-R}^{12}$; or

wherein each of Y and Y' is independently $-\text{C(=O)-(CR}^9\text{R}^{9a})_t\text{-N(R}^{10})\text{-(CR}^9\text{R}^{9a})_t\text{-C(=O)-(CR}^9\text{R}^{9a})_t\text{-N(R}^{11})\text{-(CR}^9\text{R}^{9a})_t\text{-R}^{12}$; or

wherein each of Y and Y' is independently $-\text{C(=O)-(CR}^9\text{R}^{9a})_t\text{-N(R}^{11})\text{-(CR}^9\text{R}^{9a})_t\text{-R}^{12}$; or

wherein each of Y and Y' is independently $-\text{C(=O)-(CR}^9\text{R}^{9a})_n\text{-N(R}^{11})\text{-(CR}^9\text{R}^{9a})_n\text{-C(=O)-R}^{13}$; or

wherein each of Y and Y' is independently $-C(=O)-(CR^9R^{9a})_n-N(R^{11})-C(=O)-R^{13}$; or

wherein each of Y and Y' is independently $-C(=O)-(CR^9R^{9a})_n-N(R^{11})-(CR^9R^{9a})_n-C(=O)-O-R^{13}$; or

wherein each of Y and Y' is independently $-C(=O)-(CR^9R^{9a})_n-N(R^{11})-C(=O)-O-R^{13}$; or wherein each of Y and Y' is independently $-U-(CR^9R^{9a})_t-R^{12}$; or

wherein each of Y and Y' is independently $-C(=O)-(CR^9R^{9a})_t-R^{12}$; or

wherein each of Y and Y' is independently $-[U-(CR^9R^{9a})_t-N(R^{10})-(CR^9R^{9a})_t]_k-U-(CR^9R^{9a})_t-O-(CR^9R^{9a})_t-R^{12}$; or

wherein each of Y and Y' is independently $-U-(CR^9R^{9a})_t-N(R^{10})-(CR^9R^{9a})_t-U-(CR^9R^{9a})_t-O-(CR^9R^{9a})_t-R^{12}$; or wherein each of Y and Y' is independently $-C(=O)-(CR^9R^{9a})_t-N(R^{10})-(CR^9R^{9a})_t-C(=O)-(CR^9R^{9a})_t-O-(CR^9R^{9a})_t-R^{12}$; or

wherein each of Y and Y' is independently $-U-(CR^9R^{9a})_t-O-(CR^9R^{9a})_t-R^{12}$; or

wherein each of Y and Y' is independently $-C(=O)-(CR^9R^{9a})_t-O-(CR^9R^{9a})_t-R^{12}$; or

wherein each of Y and Y' is independently $-C(=O)-(CR^9R^{9a})_n-N(R^{11})-R^{12}$, wherein R^{11} and R^{12} , together with the nitrogen atom they are attached to, form a 4-7 membered ring.

17. The compound according to claim 16, wherein each R^9 , R^{9a} , R^{10} and R^{11} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl, or C_{3-8} cycloalkyl- C_{1-6} -alkyl;

each R^{12} is independently $R^{13a}R^{13}N-$, $-C(=O)R^{13}$, $-C(=S)R^{13}$, $-C(=O)-O-R^{13}$, $-C(=O)NR^{13}R^{13a}$, $-OC(=O)NR^{13}R^{13a}$, $-OC(=O)OR^{13}$, $-N(R^{13})C(=O)NR^{13}R^{13a}$, $-N(R^{13})C(=O)OR^{13a}$, $-N(R^{13})C(=O)-R^{13a}$, $R^{13}R^{13a}N-S(=O)_2-$, $R^{13}S(=O)_2-$, $R^{13}S(=O)_2N(R^{13a})-$, $R^{13}OS(=O)_2-$, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, or C_{6-10} aryl- C_{1-6} -alkyl; or R^{11} and R^{12} , together with the nitrogen atom they are attached to, form a 4-7 membered ring; and

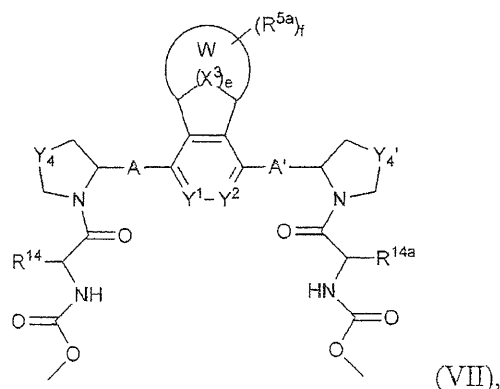
each R^{13} and R^{13a} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} heteroalkyl, C_{3-10} cycloalkyl, C_{2-10} heterocyclyl, C_{6-10} aryl, C_{1-9} heteroaryl, or C_{6-10} aryl- C_{1-6} -alkyl.

18. The compound according to claim 17, wherein each R^9 , R^{9a} , R^{10} and R^{11} is independently H, deuterium, methyl, ethyl, isopropyl, cyclohexyl, isobutyl or phenyl;

each R^{12} is independently $-C(=O)R^{13}$, $-C(=O)-O-R^{13}$, $-C(=O)NR^{13}R^{13a}$, methyl, ethyl, propyl, phenyl, cyclohexyl, morpholinyl or piperidinyl, or R^{11} and R^{12} , together with the nitrogen atom they are attached to, form a 4-7 membered ring; and

each R^{13} and R^{13a} is independently H, deuterium, methyl, ethyl, propyl, phenyl, cyclohexyl, morpholinyl or piperidinyl.

19. The compound according to claim 9 having Formula (VII):

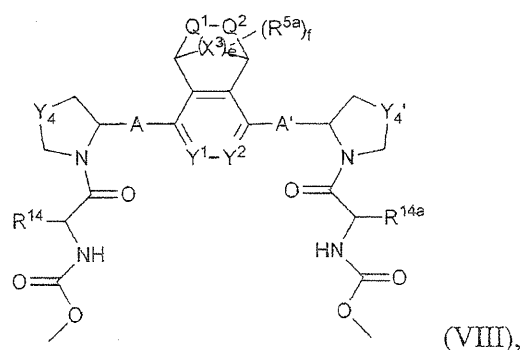


wherein each of R^{14} and R^{14a} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} heteroalkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10}

heterocyclyl, C₃₋₈ cycloalkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₉ heteroaryl-C₁₋₆-alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl, or C₃₋₈ cycloalkyl-C₁₋₆-alkyl;

wherein each of C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₁₋₆ hydroxyalkyl, C₁₋₆ heteroalkyl, C₆₋₁₀ aryl, C₁₋₉ heteroaryl, C₂₋₁₀ heterocyclyl, C₃₋₈ cycloalkyl, C₆₋₁₀ aryl-C₁₋₆-alkyl, C₁₋₉ heteroaryl-C₁₋₆-alkyl, C₂₋₁₀ heterocyclyl-C₁₋₆-alkyl and C₃₋₈ cycloalkyl-C₁₋₆-alkyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano.

20. The compound according to claim 19 having Formula (VIII):



wherein each of R¹⁴ and R^{14a} is independently H, deuterium, C₁₋₃ hydroxyalkyl, methyl, ethyl, isopropyl, isobutyl, *tert*-butyl, allyl, propargyl, trifluoroethyl, phenyl, pyranyl, morpholinyl, -NR⁷R^{7a}, benzyl, piperazinyl, cyclopentyl, cyclopropyl, cyclohexyl, or C₁₋₉ heteroaryl; wherein each of methyl, ethyl, isopropyl, isobutyl, *tert*-butyl, allyl, propargyl, trifluoroethyl, phenyl, pyranyl, morpholinyl, -NR⁷R^{7a}, benzyl, piperazinyl, cyclopentyl, cyclopropyl and cyclohexyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano;

each Q¹ and Q² is independently NR⁶, O, S, C(=O) or CH₂;

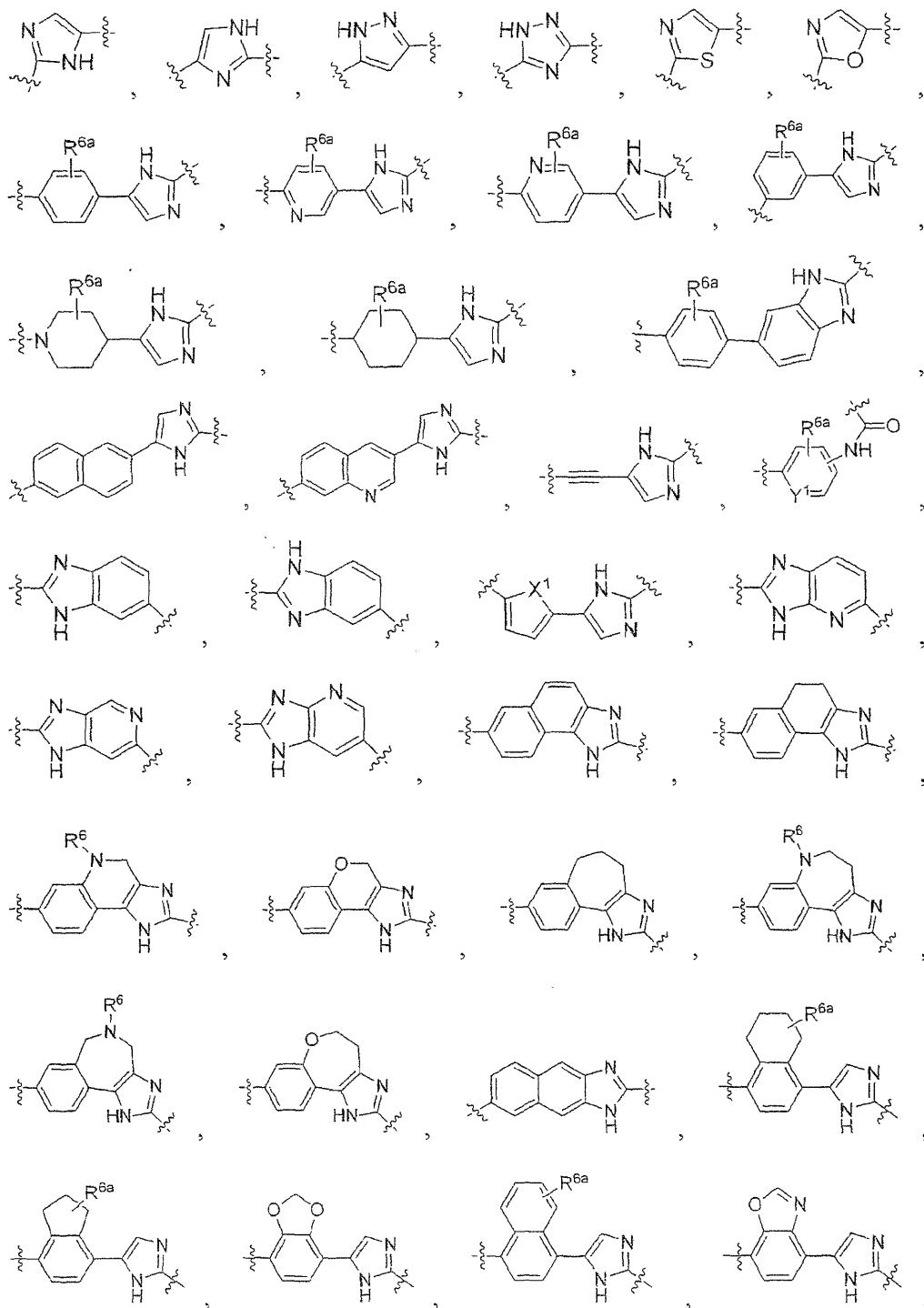
each Y¹ and Y² is independently N or CR⁷;

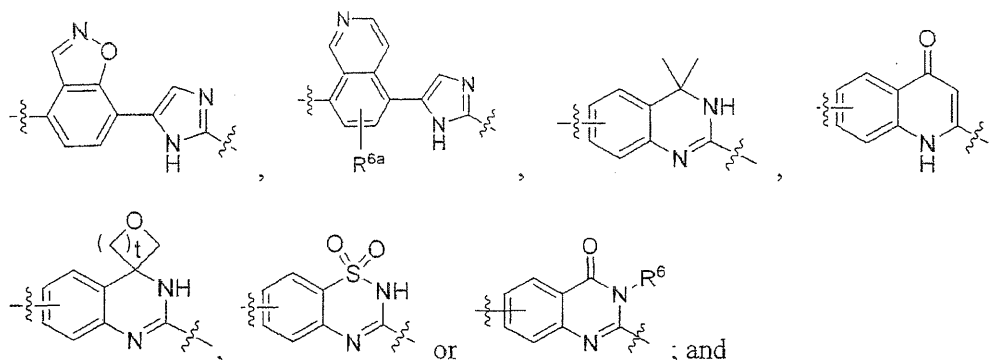
each X³ is independently O, S, NR⁶, C(=O) or CR⁷R^{7a}; e is 0, 1, 2, or 3 with the

proviso that where X^3 is O, S, C(=O) or NR^6 , e is 1;

f is 0, 1, 2, 3 or 4;

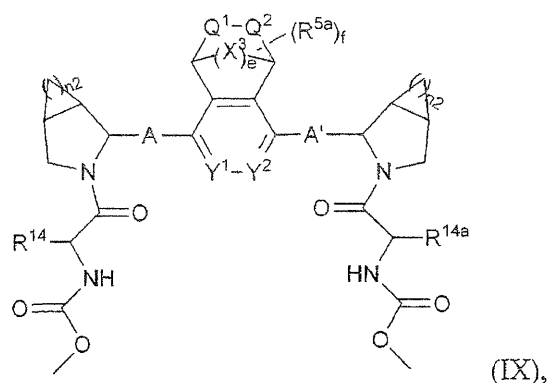
each of A and A' is independently





each of Y_4 and Y_4' is independently a bond, O, S, $-(CH_2)_n-$, $-CH=CH-$, $-S(=O)_r-$, $-CH_2O-$, $-CH_2S-$, $-CH_2S(=O)_r-$, $-CF_2-$, $-CHR^{5a}-$ or $-CH_2N(R^6)-$.

21. The compound according to claim 1 having Formula (IX):

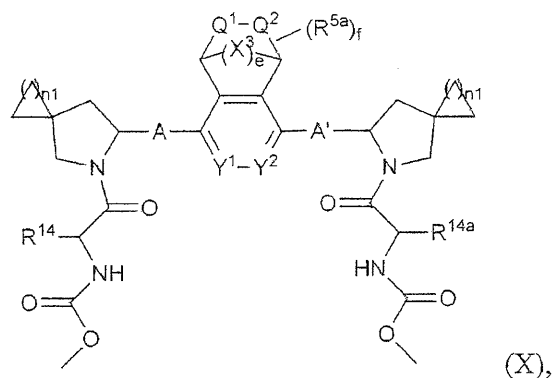


wherein each of R^{14} and R^{14a} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} heteroalkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl or C_{3-8} cycloalkyl- C_{1-6} -alkyl; and

each n_2 is independently 1, 2, 3 or 4;

wherein each of C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} heteroalkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl and C_{3-8} cycloalkyl- C_{1-6} -alkyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano.

22. The compound according to claim 1 having Formula (X):

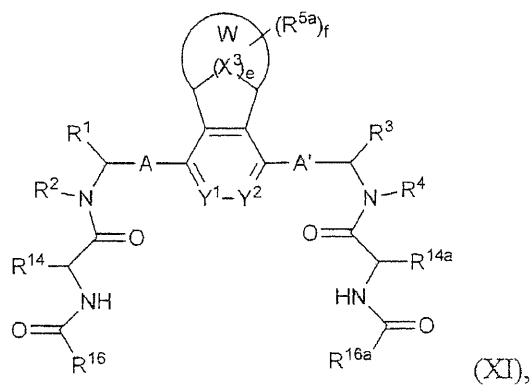


wherein each Q^1 and Q^2 is independently CH_2 , CF_2 , O, $C(=O)$ or NR^6 ;

each of R^{14} and R^{14a} is independently H, deuterium, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} heteroalkyl, C_{6-10} aryl, C_{1-9} heteroaryl, C_{2-10} heterocyclyl, C_{3-8} cycloalkyl, C_{6-10} aryl- C_{1-6} -alkyl, C_{1-9} heteroaryl- C_{1-6} -alkyl, C_{2-10} heterocyclyl- C_{1-6} -alkyl or C_{3-8} cycloalkyl- C_{1-6} -alkyl; and

each n_1 is independently 1, 2, 3 or 4.

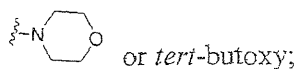
23. The compound according to claim 1 having Formula (XI):



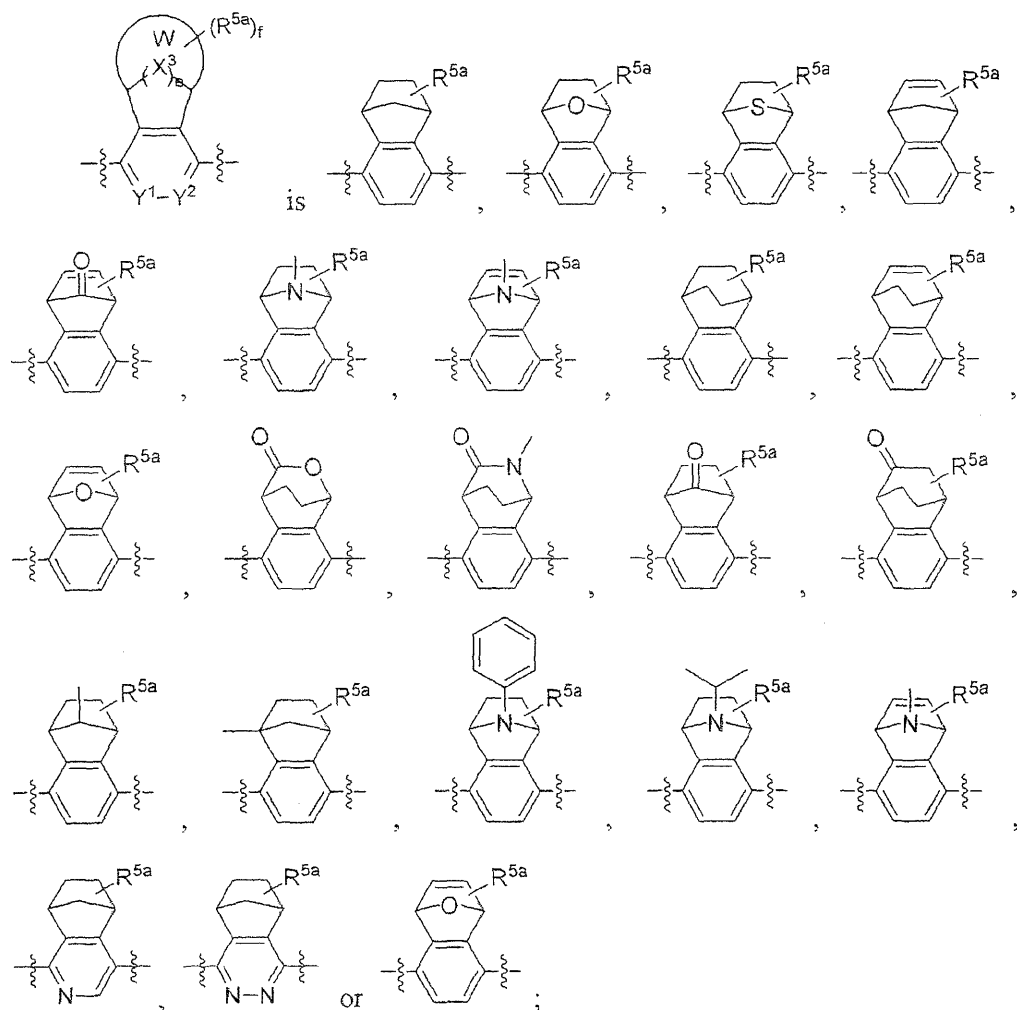
wherein each R^{5a} is independently H, deuterium, methyl, ethyl, F, Cl, Br or I;

each of R^{14} and R^{14a} is independently H, deuterium, methyl, ethyl, phenyl, cyclohexyl, 1-methyl propyl, isopropyl or *tert*-butyl;

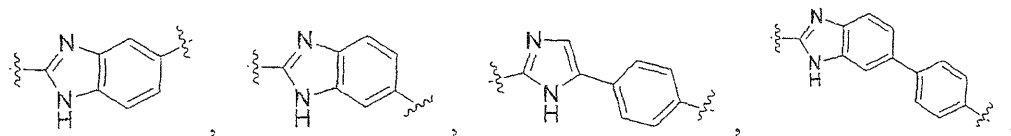
each of R^{16} and R^{16a} is independently hydroxy, methoxy, ethoxy, phenoxy,

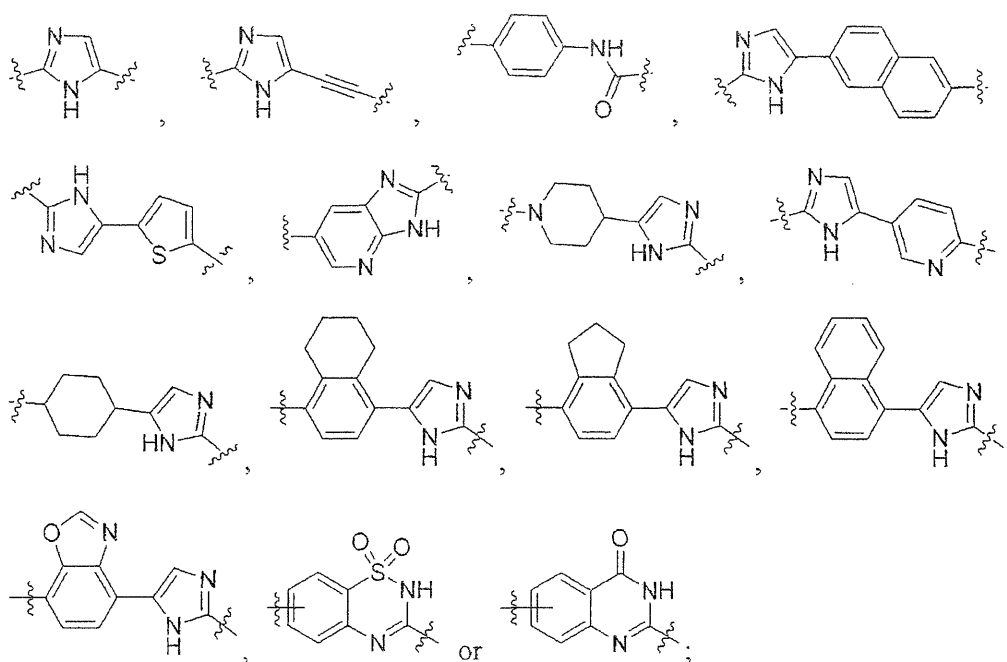


wherein each of methyl, ethyl, phenyl, cyclohexyl, 1-methyl propyl, isopropyl, methoxy, ethoxy, *tert*-butoxy and *tert*-butyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano;

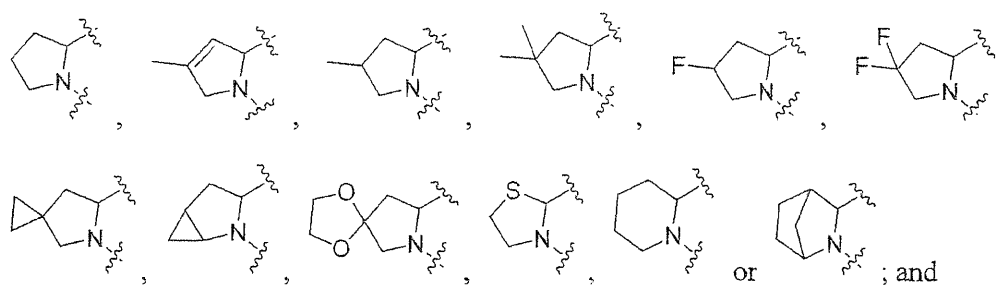


each of A and A' is independently

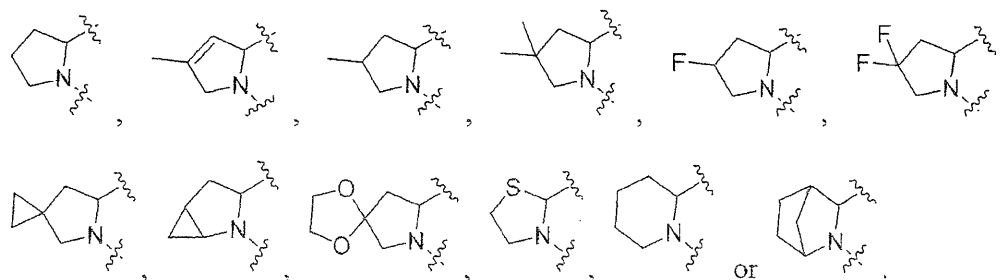




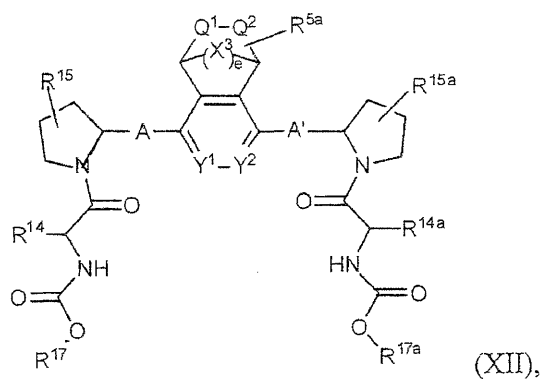
wherein R^1 , R^2 and N-CH together form one of the following divalent groups:



wherein R^3 , R^4 and N-CH together form one of the following divalent groups:



24. The compound according to claim 23 having Formula (XII):



wherein R^{5a} is H or methyl;

each of Q^1 and Q^2 is independently CH_2 , CF_2 , O, $C(=O)$ or NR^6 ;

each of Y^1 and Y^2 is independently N or CR^7 ;

R^7 is H, deuterium, methyl, ethyl, isopropyl, phenyl, F, Cl, Br, I, OH or cyano;

each of R^{14} and R^{14a} is independently H, deuterium, methyl, ethyl, isobutyl, cyclohexyl, phenyl or isopropyl;

each of R^{15} and R^{15a} is independently H, deuterium, F, Cl, Br, methyl, ethyl, isopropyl or *tert*-butyl;

each of R^{17} and R^{17a} is independently methyl, phenyl or ethyl;

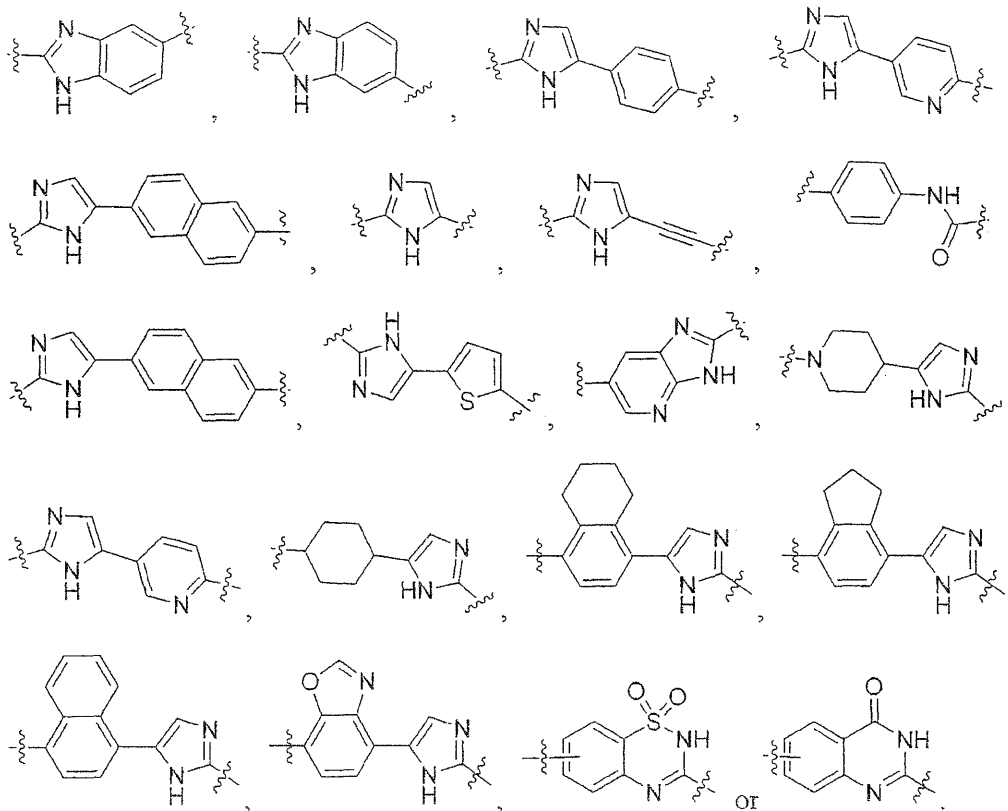
each X^3 is independently O, S, NR^6 , $C(=O)$ or CH_2 ;

each R^6 is independently H, methyl, ethyl, cyclohexyl, phenyl or isopropyl;

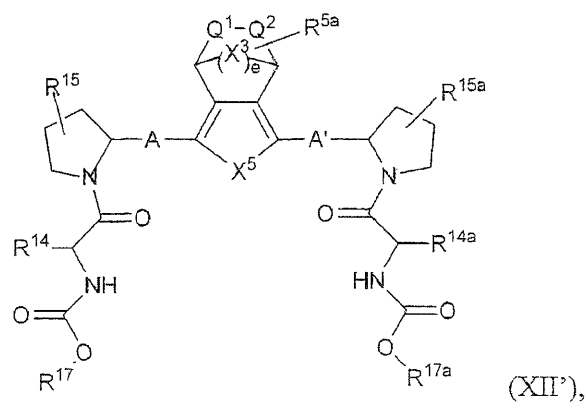
e is 0, 1, 2 or 3 with the proviso that where X^3 is O, S, or NR^6 , e is 1;

wherein each of methyl, ethyl, phenyl, cyclohexyl, isopropyl and *tert*-butyl is optionally substituted with one or more substituents, wherein the substituent is deuterium, F, Cl, Br, hydroxy or cyano; and

each of A and A' is independently



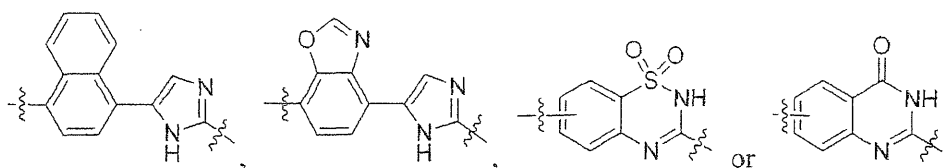
25. The compound according to claim 1 having Formula (XII'):



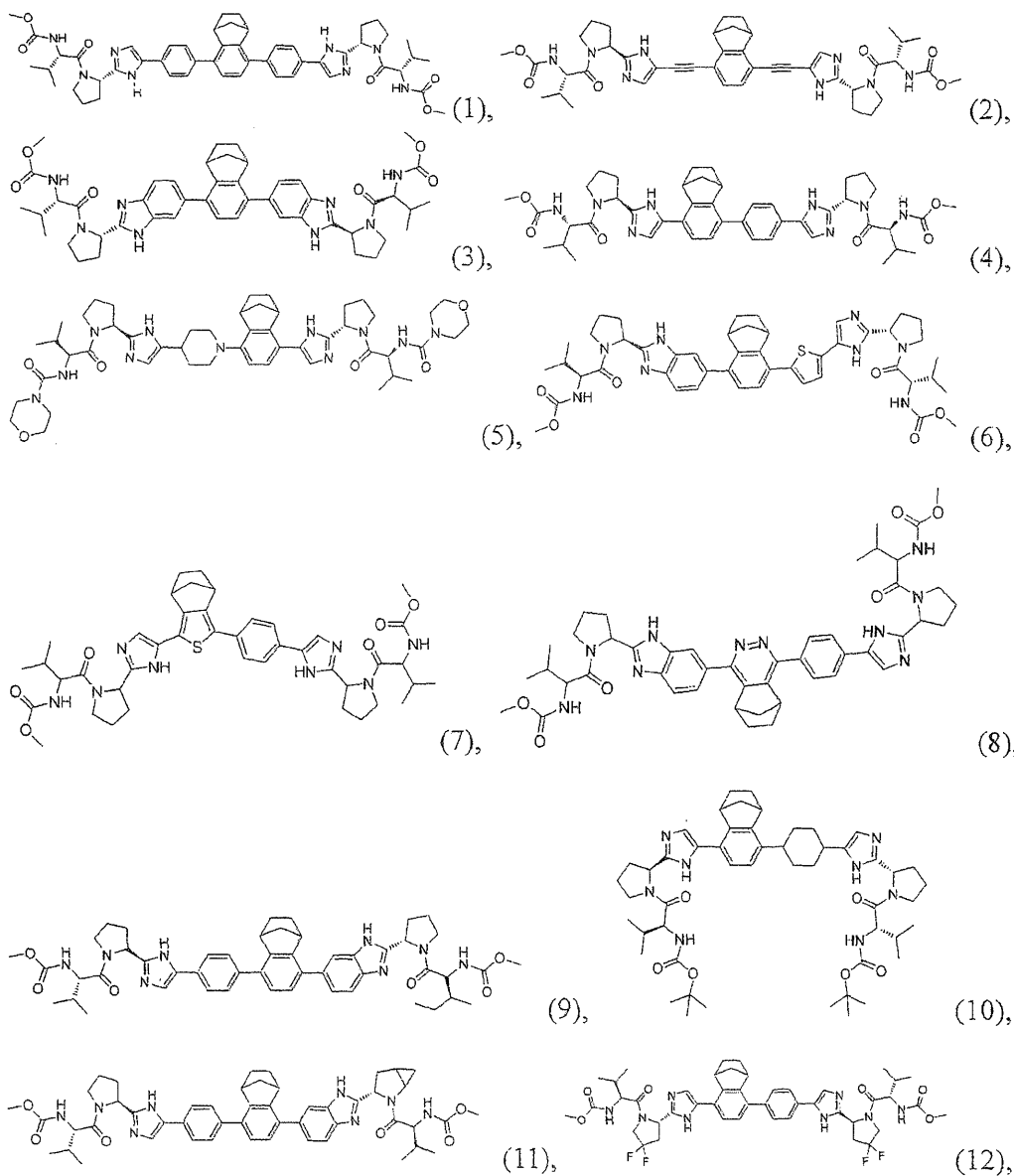
wherein R^{5a} is H or methyl;

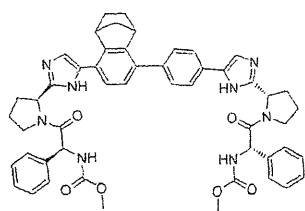
each of Q^1 and Q^2 is independently CH_2 , CF_2 , O, $C(=O)$ or NR^6 ;

X^5 is CH_2 , O, S or NR^6 ;

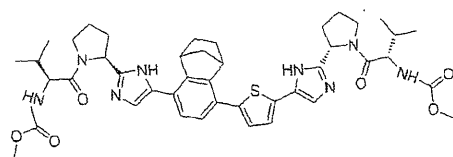


26. The compound of claim 1 having one of the following structures:

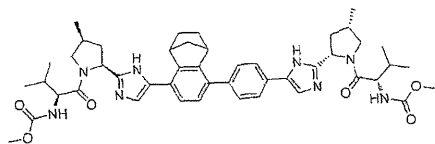




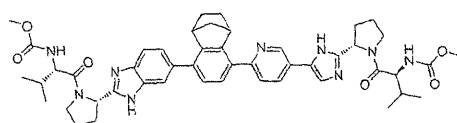
(13),



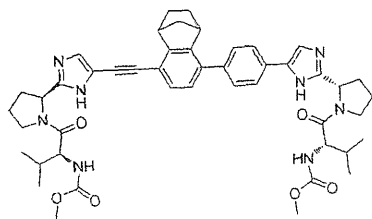
(14),



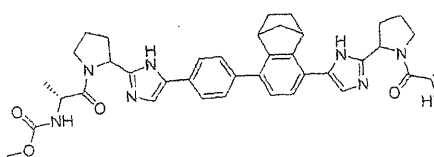
(15),



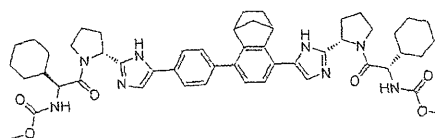
(16),



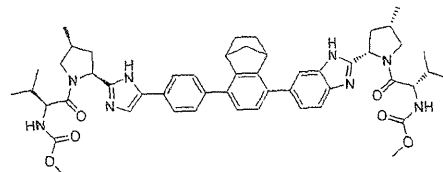
(17),



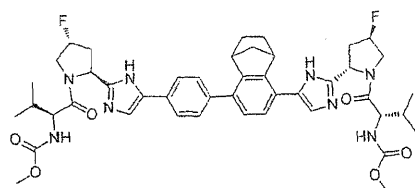
(18),



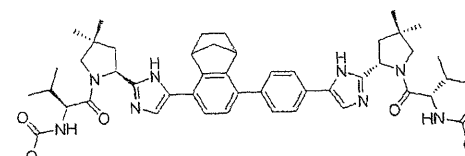
(19),



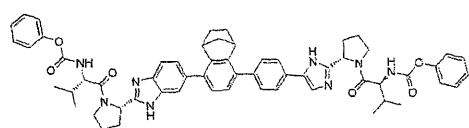
(20),



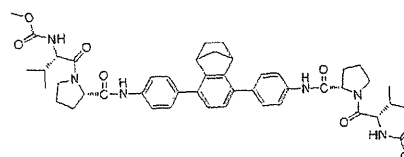
(21),



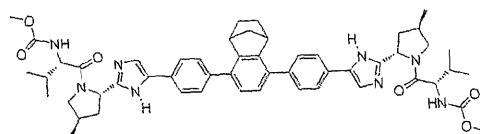
(22),



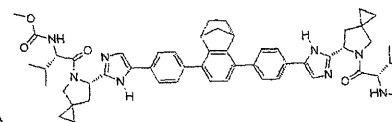
(23),



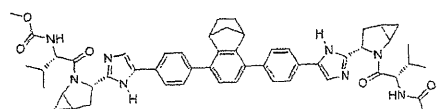
(24),



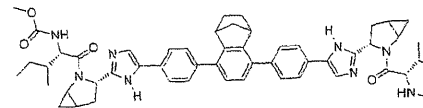
(25),



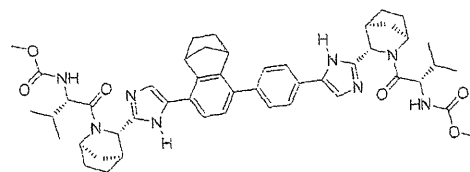
(26),



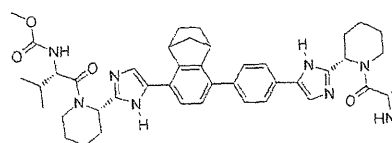
(27),



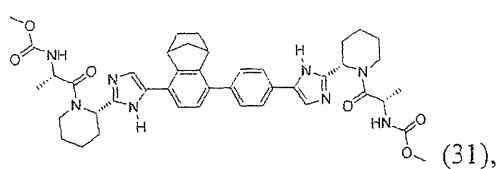
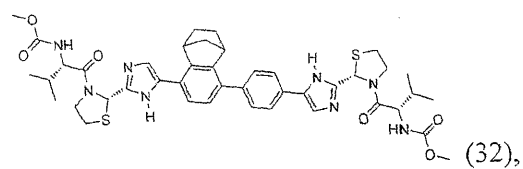
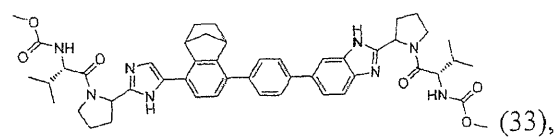
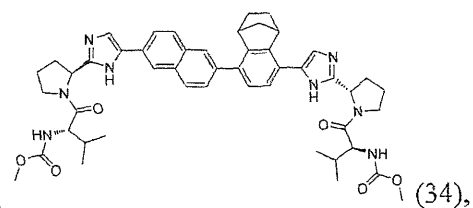
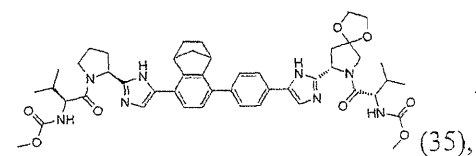
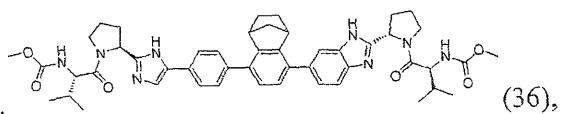
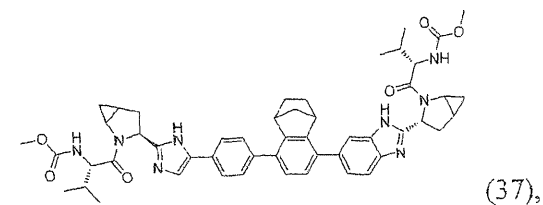
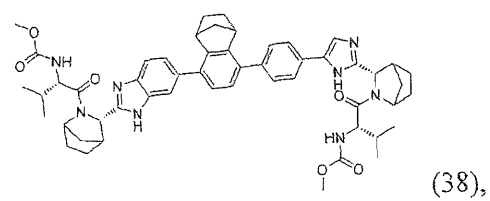
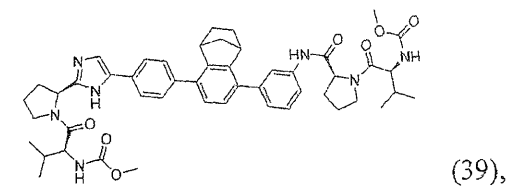
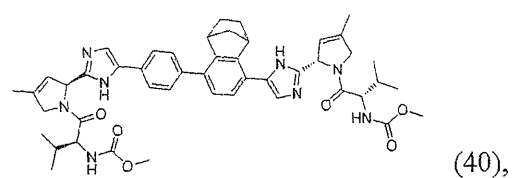
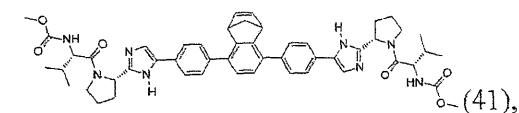
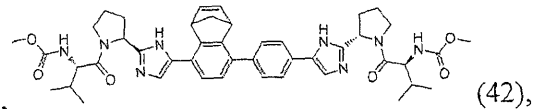
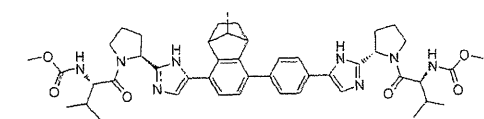
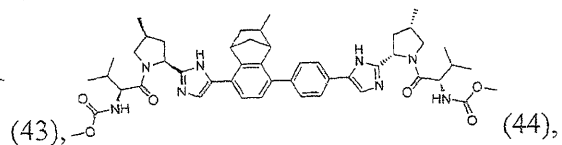
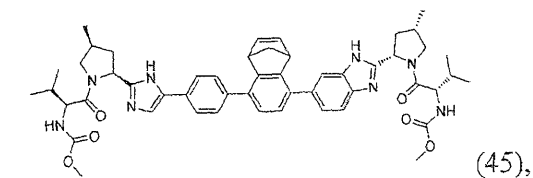
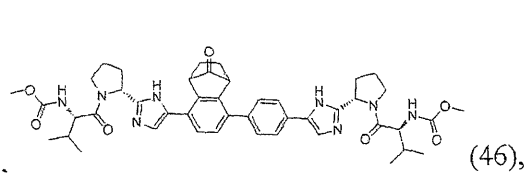
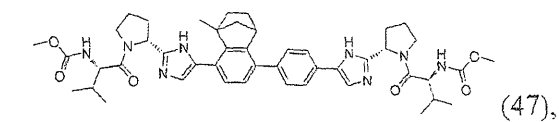
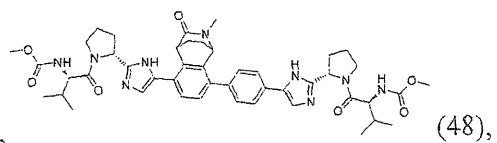
(28),

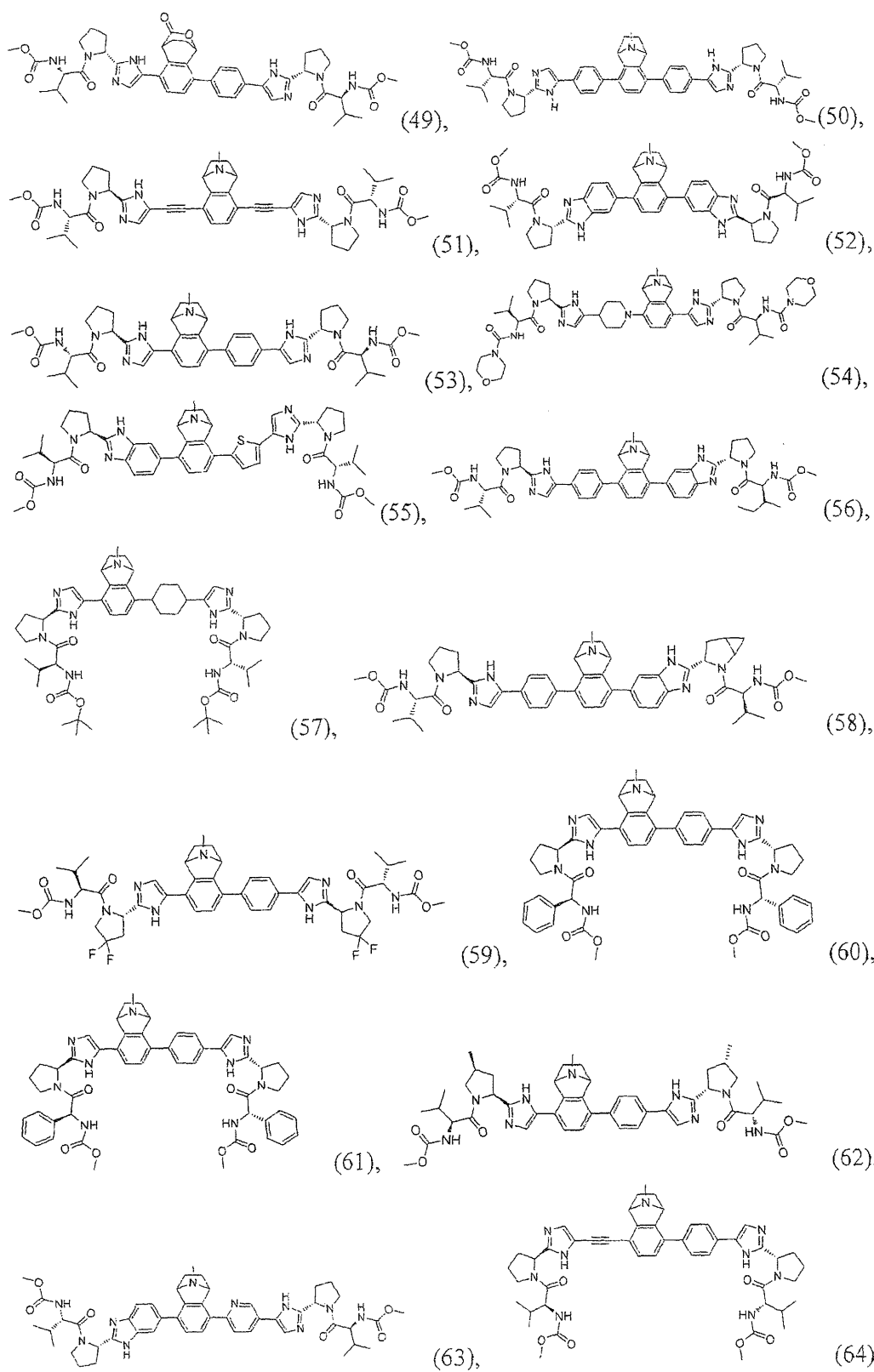


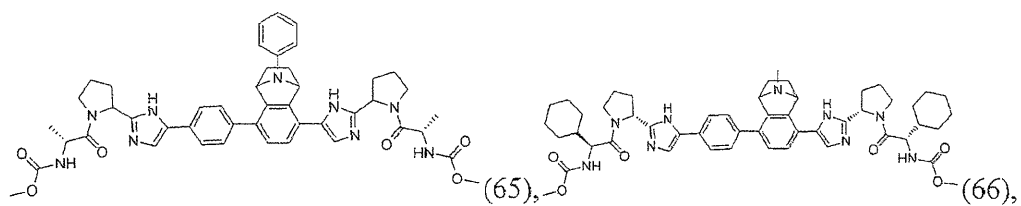
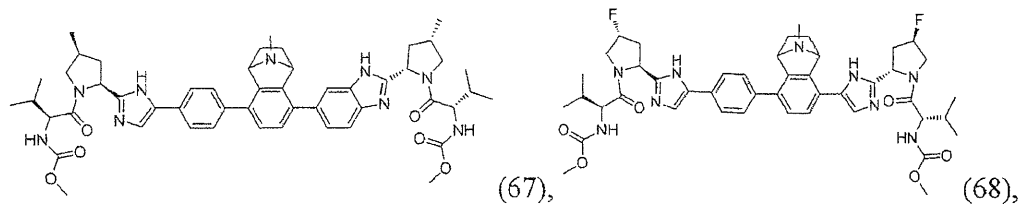
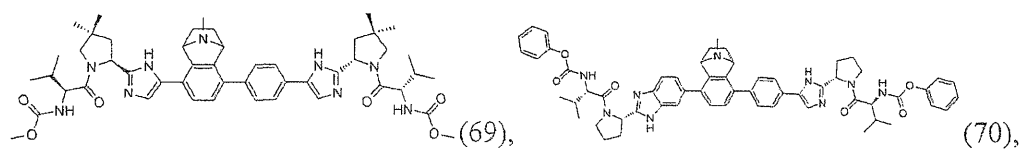
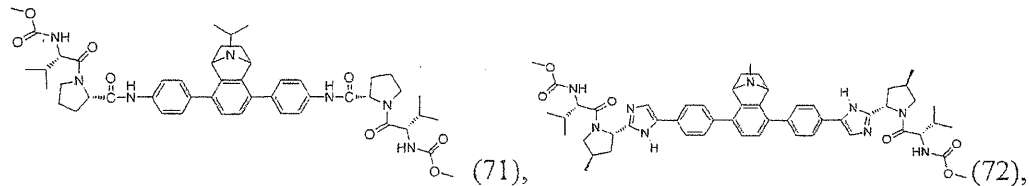
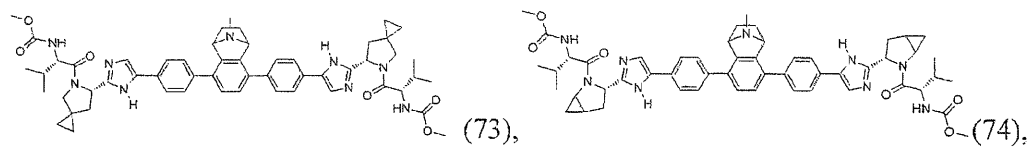
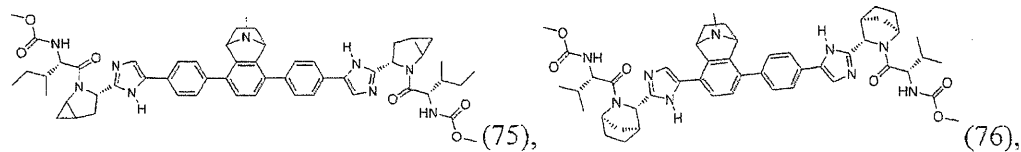
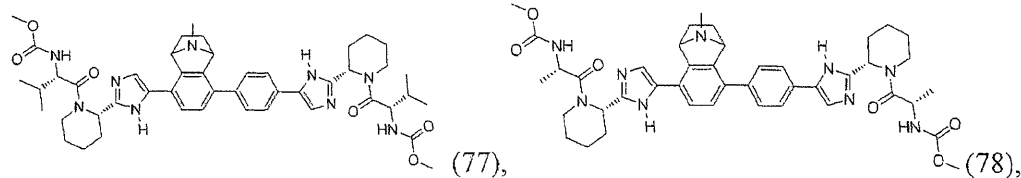
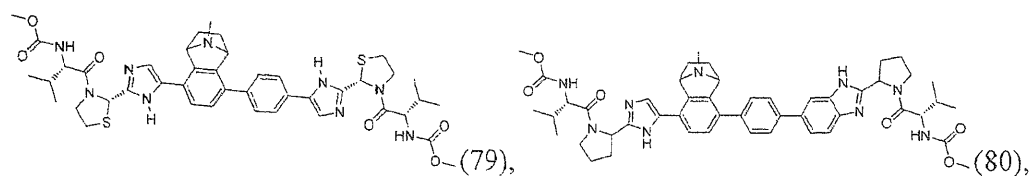
(29),

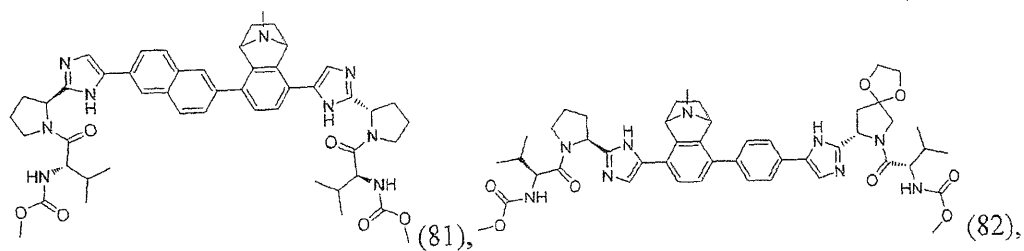
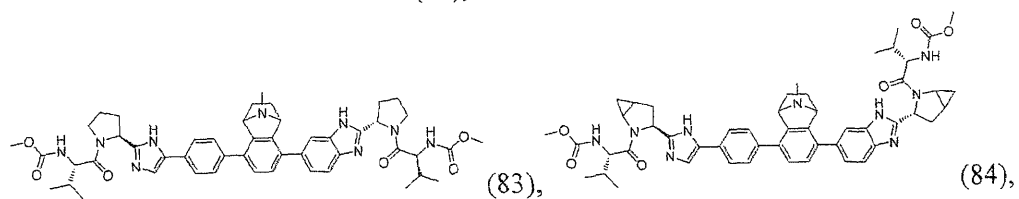
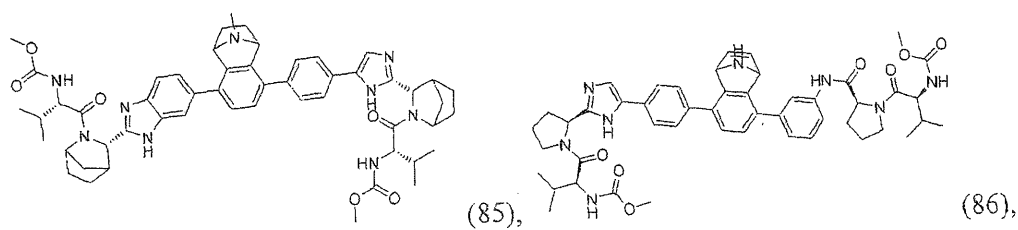
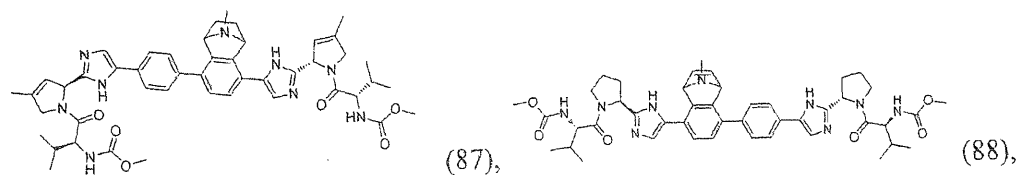
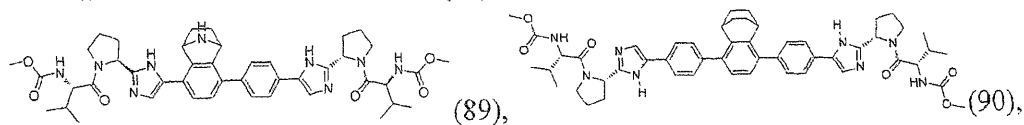
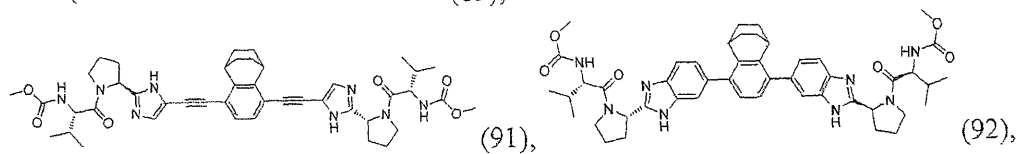
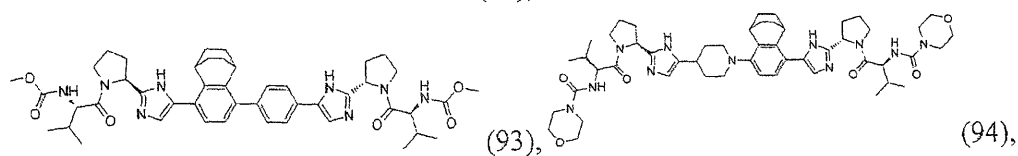
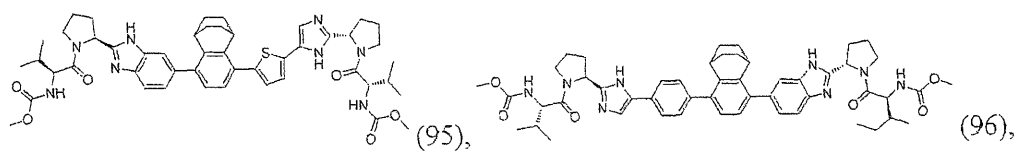
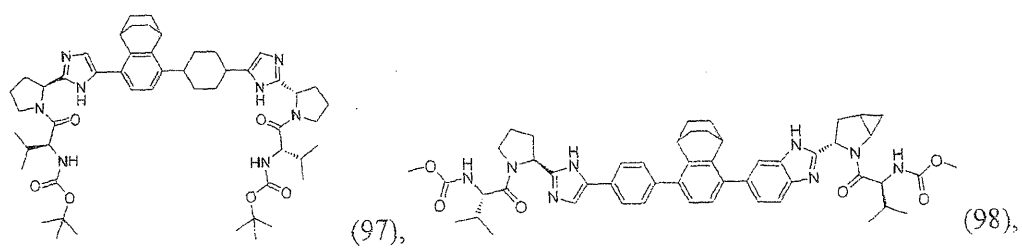


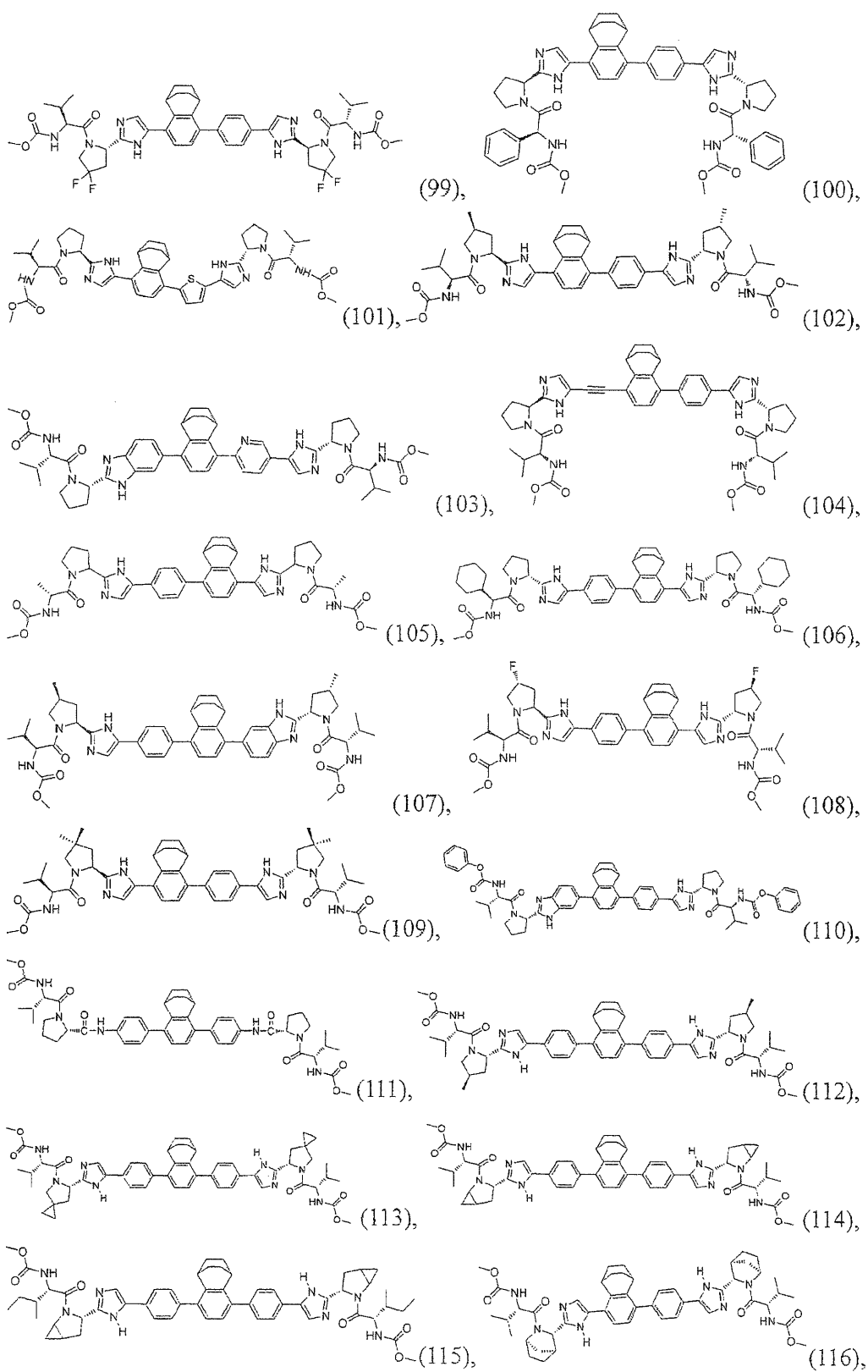
(30),

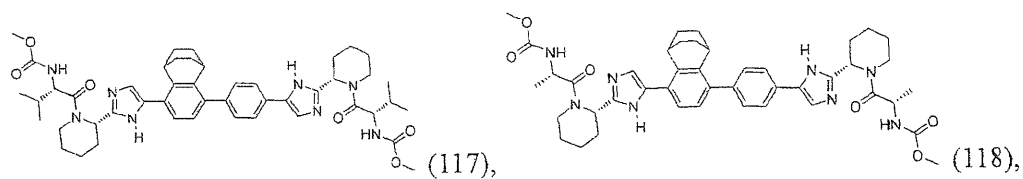
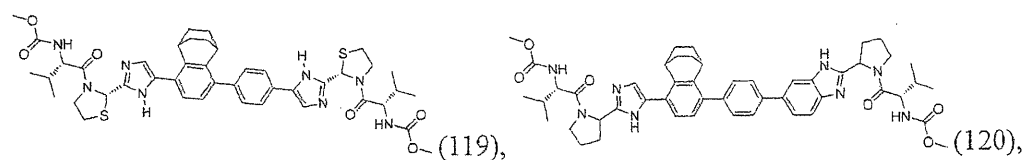
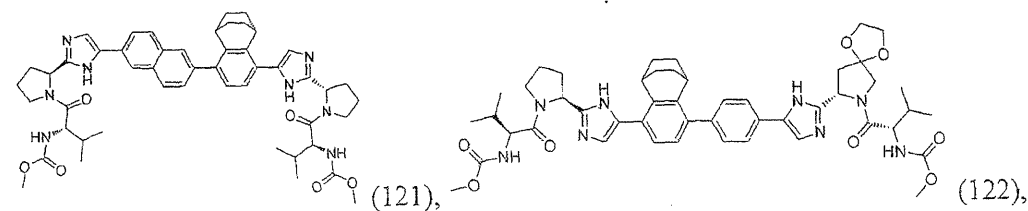
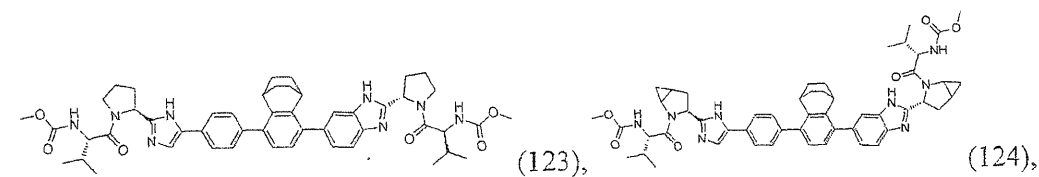
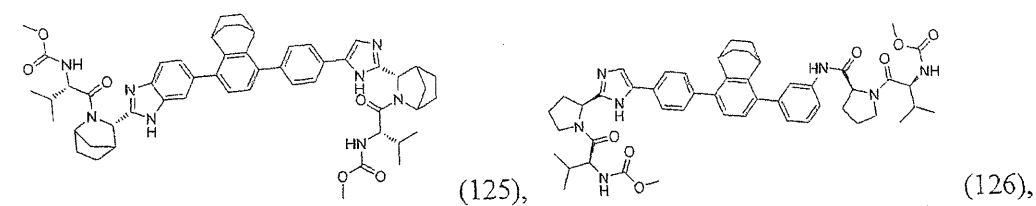
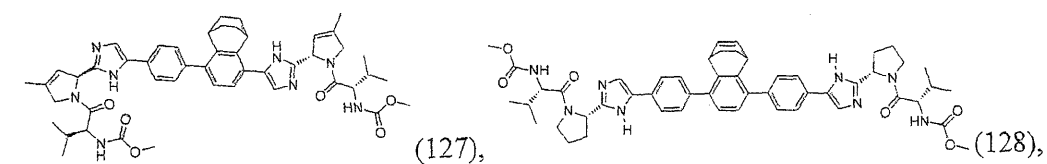
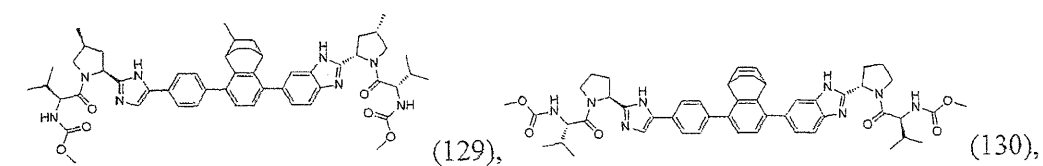
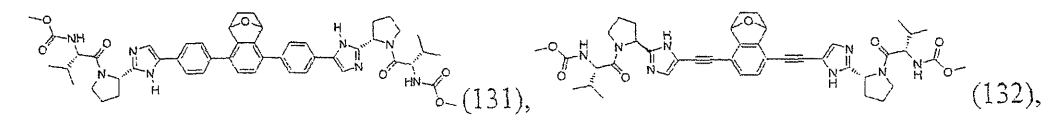
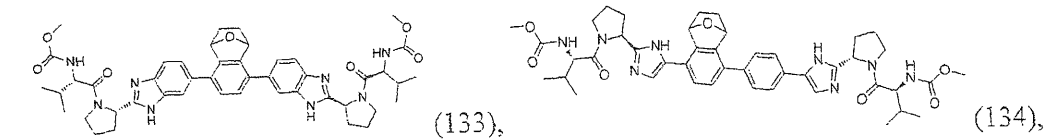


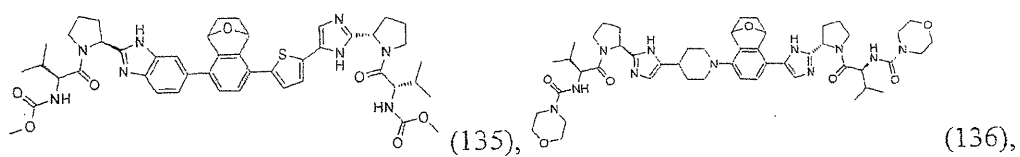
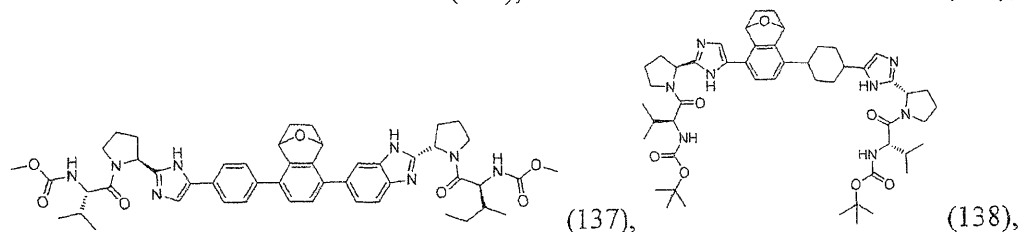
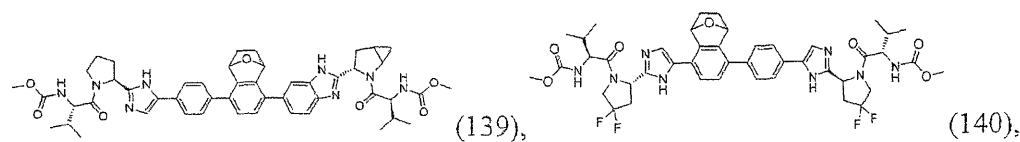
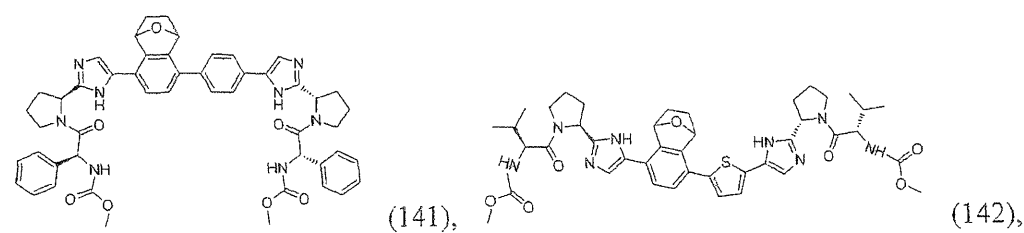
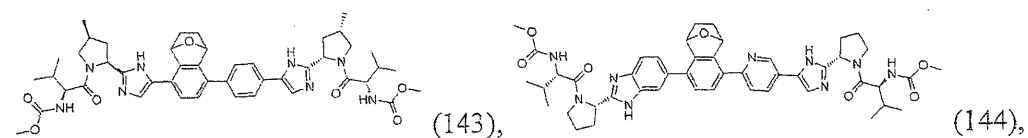
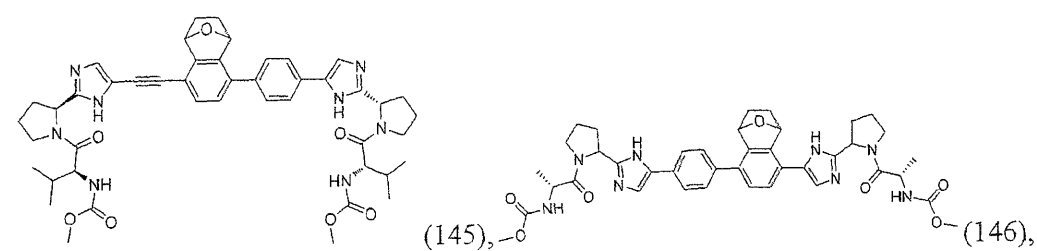
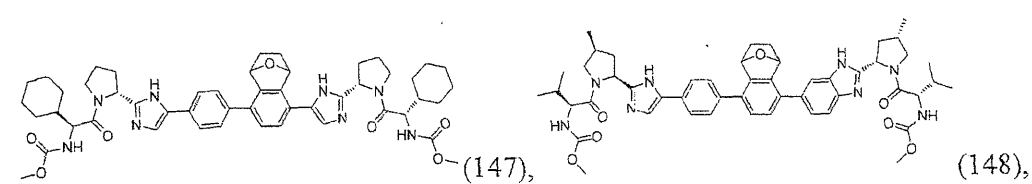
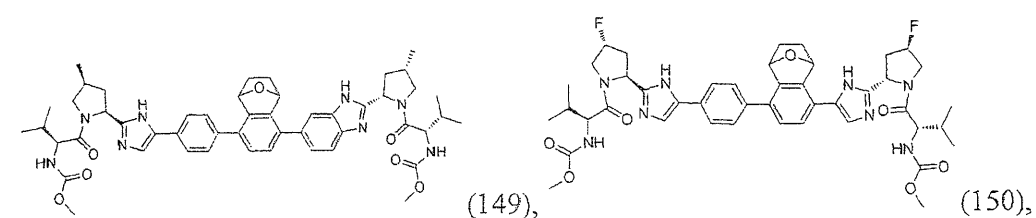


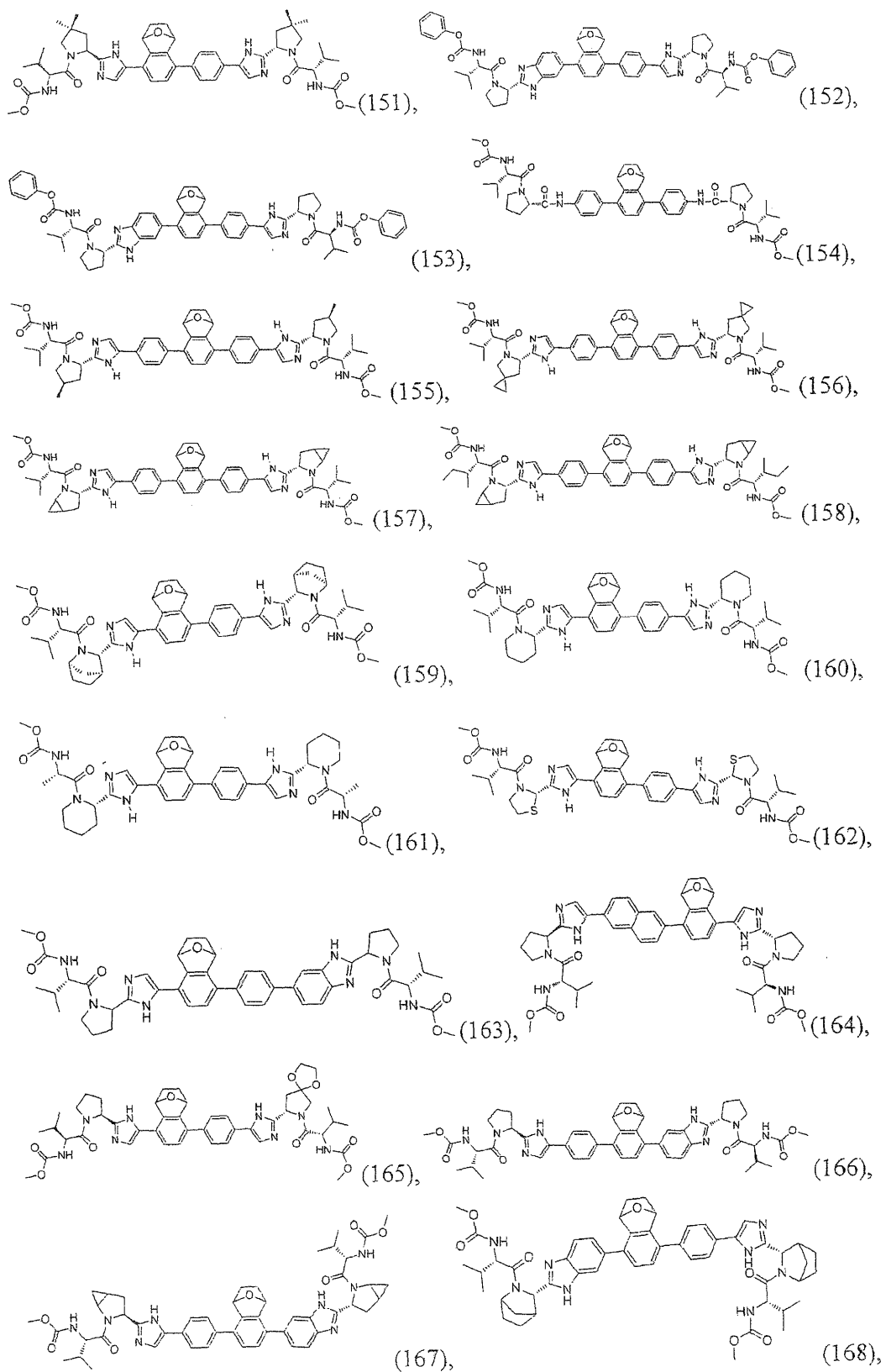


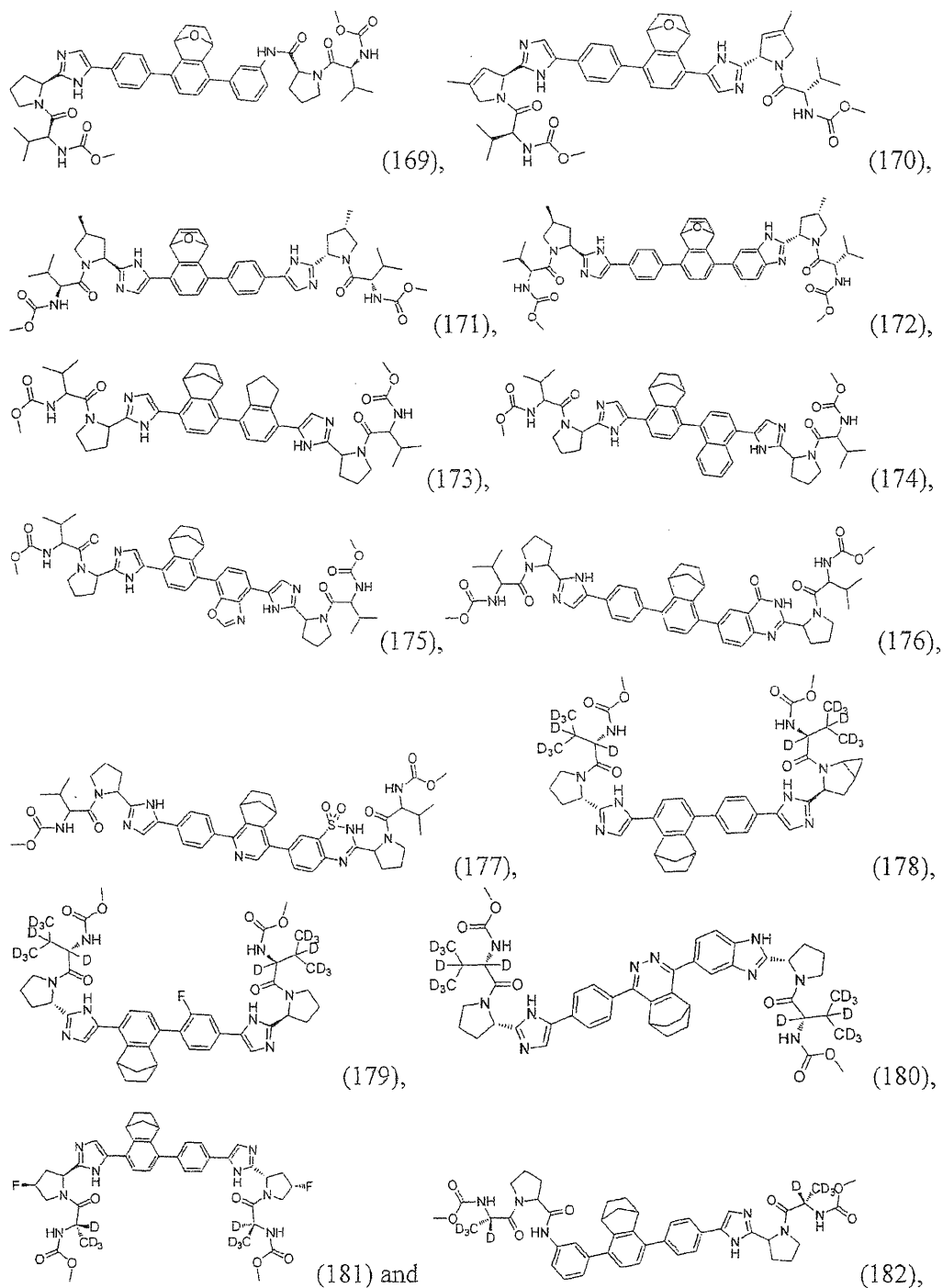












or a stereoisomer, a geometric isomer, a tautomer, an N-oxide, a hydrate, a solvate, or a pharmaceutically acceptable salt thereof.

27. A pharmaceutical composition comprising a compound according to any one of claims 1 to 26 and a pharmaceutically acceptable carrier, excipient, diluent,

adjuvant, vehicle or a combination thereof.

28. The pharmaceutical composition according to claim 27 further comprising an anti-HCV agent, wherein the anti-HCV agent is an interferon, ribavirin, IL-2, IL-6, IL-12, a compound that enhances the development of a type 1 helper T cell response, interfering RNA, anti-sense RNA, imiquimod, an inosine-5'-monophosphate dehydrogenase inhibitor, amantadine, rimantadine, ribavirin, bavituximab, human hepatitis C immune globulin (CIVACIRTM), boceprevir, telaprevir, erlotinib, daclatasvir, simeprevir, asunaprevir, vaniprevir, faldaprevir, ABT-450, danoprevir, sovalprevir, MK-5172, vedroprevir, BZF-961, GS-9256, narlaprevir, ANA975, ABT-267, EDP239, PPI-668, GS-5816, samatasvir (IDX-719), MK-8742, MK-8325, GSK-2336805, PPI-461, TMC-435, MK-7009, BI-2013335, ciluprevir, BMS-650032, ACH-1625, ACH-1095, VX-985, IDX-375, VX-500, VX-813, PHX-1766, PHX-2054, IDX-136, IDX-316, EP-013420, VBY-376, TMC-649128, R-7128, PSI-7977, INX-189, IDX-184, IDX102, R1479, UNX-08189, PSI-6130, PSI-938, PSI-879, HCV-796, HCV-371, VCH-916, VCH-222, ANA-598, MK-3281, ABT-333, ABT-072, PF-00868554, BI-207127, GS-9190, A-837093, JKT-109, GI-59728, GL-60667, AZd-2795, TMC647055 or a combination thereof, and wherein the interferon is interferon α -2b, pegylated interferon α , interferon α -2a, pegylated interferon α -2a, consensus interferon- α or interferon γ .

29. The pharmaceutical composition according to claim 27 or claim 28 further comprising at least one HCV inhibitor, wherein the HCV inhibitor inhibits HCV viral protein, HCV replication or HCV viral protein and HCV replication, and wherein the HCV viral protein is helicase, proteinase, polymerase, metalloproteinase, serine proteinase, non-structural protein NS4A, non-structural protein NS5A, or non-structural protein NS4B, and wherein the HCV replication is HCV entry, HCV assembly, HCV egress, internal ribosome entrysite (IRES) or inosine-5'-monophosphate dehydrogenase (IMPDH).

30. Use of a compound according to any one of claims 1 to 26 in the

manufacture of a medicament for preventing, managing, treating or lessening the severity of HCV infection or a HCV disorder.