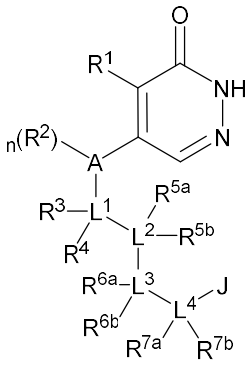
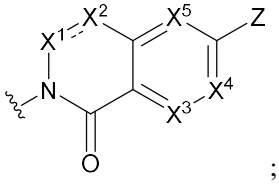
What is claimed is:

1. A compound of Formula (I):



(I),

or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, wherein J is  ;

X^1 is N, C=O, C-R^{10}, or C-$(R^{10})_2$; X^2 is N, N-R^{11}, C-R^{12}, or C-$(R^{12})_2$; X^3 is N or C-R^{13}; X^4 is N or C-R^{13}; X^5 is N or C-R^{13}; or

A is selected from C, O, N; 3-10 membered cycloalkyl optionally substituted with one or more R^{15}; and 4-11 membered heterocyclyl, optionally substituted with one or more R^{15};

when A is O, n is 0; when A is N, n is 1; when A is C, n is 1 or 2;

and when A is N, n is 0 or 1, and L^1 is C or N-R^{17} and L^2, L^3 and L^4 are each C;

L^1, L^2, are each independently C, $C_{6\text{-}10}$ aryl, 5-12 membered heteroaryl, or NH;

L^3 and L^4 are each C; or

L^1 and L^2, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, $C_{6\text{-}10}$ aryl, 5-12 membered heteroaryl or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged, each optionally substituted with one or more R^{15} and wherein the $C_{6\text{-}10}$ aryl, or 5-12 membered heteroaryl is monocyclic or bicyclic; or

L^1 and L^3, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, $C_{6\text{-}10}$ aryl, 5-12 membered heteroaryl or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged, each optionally

substituted with one or more R^{15} and wherein the C_{6-10} aryl, or 5-12 membered heteroaryl is monocyclic or bicyclic; or

L^2 and L^3, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged, each optionally substituted with one or more R^{15} and wherein the C_{6-10} aryl, or 5-12 membered heteroaryl is monocyclic or bicyclic; or

L^3 and L^4, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged, each optionally substituted with one or more R^{15} and wherein the C_{6-10} aryl, or 5-12 membered heteroaryl is monocyclic or bicyclic; or

L^2 and L^4, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged, each optionally substituted with one or more R^{15} and wherein the C_{6-10} aryl, or 5-12 membered heteroaryl is monocyclic or bicyclic, each optionally substituted with one or more R^{15};

R^1 is selected from H, halo, CH_3, CH_2CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, CN, O-R^{14}, C(O)-R^{14}, -SF_5; C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{15}, N(R^{17})C(O)O-R^{15}, N(R^7)S(O)$_2$(R^{15}), N(R^{17})C(O)-N(R^{17})(R^{18}), S(O)$_2$$R^{15}$, S(O)$_2$N($R^{17}$)($R^{18}$), S(O)(NH)$R^{17}$, S(O)($NR^{17}$)$NR^{18}$, C_{1-5} alkyl optionally substituted with one or more R^{15}; C_{3-10} cycloalkyl optionally substituted with one or more R^{15}; 5-10 membered heteroaryl optionally substituted with one or more R^{15}; C_{6-10} aryl optionally substituted with one or more R^{15}; and 4-7 membered heterocyclyl optionally substituted with one or more R^{15};

R^2 is selected from H, C_{1-9} alkyl, C_{2-9} alkenyl, and C_{2-9} alkynyl, wherein any alkyl, alkenyl, and alkynyl are optionally substituted with one or more R^{10};

R^3 and R^4 are each independently selected from H, C_{1-9} alkyl, C_{2-9} alkenyl, C_{2-9} alkynyl, wherein any alkyl, alkenyl, and alkynyl are optionally substituted with one or more R^{15}, C_{3-12} cycloalkyl optionally substituted with one or more R^{15}, C_{6-10} aryl optionally substituted with one or more R^{15}, 4-11 membered heterocyclyl optionally substituted with one or more R^{15}, and 5-10 membered heteroaryl optionally substituted with one or more R^{15}; or

R^2 and R^3, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, optionally substituted with one or more with R^{15};

wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged optionally substituted with one or more R^{15}; or

R^3 and R^4, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; wherein a 3-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged each optionally substituted with one or more R^{15}; or

R^2 and R^4, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; wherein a 3-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged each optionally substituted with one or more R^{15};

R^{5a}, R^{5b} R^{6a}, R^{6b} , R^{7a}, and R^{7b} are each independently selected from H, halo, NO_2, CN, O- R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})S(O)$_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), S(O)$_2$$R^{16}$, -$SF_5$, S(O)$_2$N($R^{17}$)($R^{18}$), S(O)(NH)$R^{17}$, S(O)(N$R^{17}$)N$R^{18}$, C_{1-9} alkyl optionally substituted with one or more R^{15}; C_{2-9} alkynyl optionally substituted with one or more R^{15}; C_{2-9} alkenyl optionally substituted with one or more R^{15}; 5-12 membered heteroaryl optionally substituted with one or more R^{15}; C_{6-10} aryl optionally substituted with one or more R^{15}; 4-12 membered heterocyclyl optionally substituted with one or more R^{15}; and C_{3-12} cycloalkyl optionally substituted with one or more R^{15}; or

R^{5a} and R^{5b}, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; or

R^{6a} and R^{6b} together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; or

R^{7a} and R^{7b}, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15} wherein a 3-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged each optionally substituted with one or more R^{15};

Z is selected from H, -CN, C_{1-9} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{1-8} haloalkyl, -O(C_{1-9} alkyl), -O(C_{2-6} alkenyl), -O(C_{2-6} alkynyl), -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), -OC(O) (C_{1-9} alkyl), -OC(O)(C_{2-6} alkenyl), -OC(O)(C_{2-6} alkenyl), -OC(O)(C_{2-6} alkynyl), -OC(O)(C_{3-15} cycloalkyl), -OC(O)(C_{1-8} haloalkyl), -OC(O)(C_{6-10} aryl), -OC(O)(5-12 membered heteroaryl), -OC(O)(4-12 membered heterocyclyl), -NH_2, -NH(C_{1-9} alkyl), -NH(C_{2-6} alkenyl), -NH(C_{2-6} alkynyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{2-6} alkenyl)$_2$, -N(C_{2-6} alkynyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{1-8} haloalkyl)$_2$, -N(C_{6-10} aryl)$_2$, -N(5-12 membered

heteroaryl)$_2$, -N(4-12 membered heterocyclyl)$_2$, -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{2-6} alkenyl), -N(C_{1-9} alkyl)(C_{2-6} alkynyl), -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{1-8} haloalkyl), -N(C_{1-9} alkyl)(C_{6-10} aryl), -N(C_{1-9} alkyl) (5-12 membered heteroaryl), -N(C_{1-9} alkyl)(4-12 membered heterocyclyl), -C(O)(C_{1-9} alkyl), -C(O)(C_{2-6} alkenyl), -C(O)(C_{2-6} alkynyl), -C(O)(C_{3-15} cycloalkyl), -C(O)(C_{1-8} haloalkyl), -C(O)(C_{6-10} aryl), -C(O)(5-12 membered heteroaryl), -C(O)(4-12 membered heterocyclyl), -C(O)O(C_{1-9} alkyl), -C(O)O(C_{2-6} alkenyl), -C(O)O(C_{2-6} alkynyl), -C(O)O(C_{3-15} cycloalkyl), -C(O)O(C_{1-8} haloalkyl), -C(O)O(C_{6-10} aryl), -C(O)O(5-12 membered heteroaryl), -C(O)O(4-12 membered heterocyclyl), -C(O)NH_2, -C(O)NH(C_{1-9} alkyl), -C(O)NH(C_{2-6} alkenyl), -C(O)NH(C_{2-6} alkynyl), -C(O)NH(C_{3-15} cycloalkyl), -C(O)NH(C_{1-8} haloalkyl), -C(O)NH(C_{6-10} aryl), -C(O)NH(5-12 membered heteroaryl), -C(O)NH(4-12 membered heterocyclyl), -C(O)N(C_{1-9} alkyl)$_2$, -C(O)N(C_{3-15} cycloalkyl)$_2$, -C(O)N(C_{2-6} alkenyl)$_2$, -C(O)N(C_{2-6} alkynyl)$_2$, -C(O)N(C_{1-8} haloalkyl)$_2$, -C(O)N(C_{6-10} aryl)$_2$, -C(O)N(5-12 membered heteroaryl)$_2$, -C(O)N(4-12 membered heterocyclyl)$_2$, -NHC(O)(C_{1-9} alkyl), -NHC(O)(C_{2-6} alkenyl), -NHC(O)(C_{2-6} alkynyl), -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkenyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -NHC(O)NH(C_{2-6} alkenyl), -NHC(O)NH(C_{2-6} alkynyl), -NHC(O)NH(C_{3-15} cycloalkyl), -NHC(O)NH(C_{1-8} haloalkyl), -NHC(O)NH(C_{6-10} aryl), -NHC(O)NH(5-12 membered heteroaryl), -NHC(O)NH(4-12 membered heterocyclyl), -SH, -S(C_{1-9} alkyl), -S(C_{2-6} alkenyl), -S(C_{2-6} alkynyl), -S(C_{3-15} cycloalkyl), -S(C_{1-8} haloalkyl), -S(C_{6-10} aryl), -S(5-12 membered heteroaryl), -S(4-12 membered heterocyclyl), -NHS(O)(C_{1-9} alkyl), -N(C_{1-9} alkyl)(S(O)(C_{1-9} alkyl), -S(O)N(C_{1-9} alkyl)$_2$, -S(O)(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), -S(O)(C_{2-6} alkenyl), -S(O)(C_{2-6} alkynyl), -S(O)(C_{3-15} cycloalkyl), -S(O)(C_{1-8} haloalkyl), -S(O)(C_{6-10} aryl), -S(O)(5-12 membered heteroaryl), -S(O)(4-12 membered heterocyclyl), -S(O)$_2$(C_{1-9} alkyl), -S(O)$_2$(C_{2-6} alkenyl), -S(O)$_2$(C_{2-6} alkynyl), -S(O)$_2$(C_{3-15} cycloalkyl), -S(O)$_2$(C_{1-8} haloalkyl), -S(O)$_2$(C_{6-10} aryl), -S(O)$_2$(5-12 membered heteroaryl), -S(O)$_2$(4-12 membered heterocyclyl), -S(O)$_2$NH(C_{1-9} alkyl), and -S(O)$_2$N(C_{1-9} alkyl)$_2$; wherein any alkyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl of R^{15} is optionally substituted with one or more halo, C_{1-9} alkyl, C_{1-8} haloalkyl, -OH, -NH_2, -NH(C_{1-9} alkyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), -S(O)$_2$(C_{1-9} alkyl), -S(O)$_2$(C_{3-15}

cycloalkyl), -$S(O)_2$(C_{1-8} haloalkyl), -$S(O)_2$(C_{6-10} aryl), -$S(O)_2$(5-12 membered heteroaryl), -$S(O)_2$(4-12 membered heterocyclyl), -$S(O)_2NH$(C_{1-9} alkyl), -$S(O)_2N$(C_{1-9} alkyl)$_2$, -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), or -O(C_{1-9} alkyl); 5-12 membered heteroaryl substituted with one or more R^{13}; C_{6-10} aryl optionally substituted with one or more R^{15}; C_{3-12} cycloalkyl optionally substituted with one or more R^{15}; or 4-12 membered heterocyclyl substituted with one or more R^{15}; wherein any 5-12 membered heteroaryl, C_{6-10} aryl, C_{3-12} cycloalkyl, or 4-12 membered heterocyclyl, is monocyclic, bicyclic, substituted with one or more R^{15} and 3-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged each substituted with one or more R^{15};

R^{10} is selected from H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})$S(O)_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), $S(O)_2R^{16}$, -SF_5, $S(O)_2N$(R^{17})(R^{18}), S(O)(NH)R^{17}, S(O)(NR^{17})NR^{18}, C_1-$_9$ alkyl, C_2-$_6$ alkenyl, C_2-$_6$ alkynyl, C_{3-15} cycloalkyl, C_{6-10} aryl, 5-10 membered heteroaryl, and 4-12 membered heterocyclyl, wherein any alkyl, alkenyl, alkenyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more with R^{16};

R^{11} is selected from H, C_1-$_9$ alkyl, C_2-$_9$ alkenyl, C_2-$_9$ alkynyl, C_{3-12} cycloalkyl, C_{6-10} aryl, 6-12 membered heteroaryl, and 4-12 membered heterocyclyl, wherein any alkyl, alkenyl, alkenyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more with R^{16};

R^{12} is selected from H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14},, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})$S(O)_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), $S(O)_2R^{16}$, $S(O)_2N$(R^{17})(R^{18}), S(O)(NH)R^{17}, S(O)(NR^{17})NR^{18}, C_1-$_9$ alkyl, C_2-$_9$ alkenyl, C_2-$_9$ alkynyl, C_{3-12} cycloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl, and 4-12 membered heterocyclyl, wherein any alkyl, alkenyl, alkenyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more with R^{16};

R^{13} is independently selected from H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O-R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})$S(O)_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), -SF_5, $S(O)_2R^{16}$, $S(O)_2N$(R^{17})(R^{18}), S(O)(NH)R^{17}, S(O)(NR^{17})NR^{18}, C_1-$_9$ alkyl, C_2-$_9$ alkenyl, C_2-$_9$ alkynyl, C_{3-12} cycloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl, and 4-12 membered heterocyclyl, wherein any alkyl, alkenyl, alkenyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more with R^{16};

R^{15} is independently selected from H, C=O, hydroxy, halo, -NO_2, -N_3, -CN, C_1-$_9$ alkyl, C_2-$_6$ alkenyl, C_2-$_6$ alkynyl, C_{3-15} cycloalkyl, C_{1-8} haloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl, 4-12 membered heterocyclyl, -O(C_1-$_9$ alkyl), -O(C_2-$_6$ alkenyl), -O(C_2-$_6$ alkynyl), -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), -OC(O) (C_1-$_9$ alkyl), -OC(O)(C_2-$_6$ alkenyl), -OC(O)(C_2-$_6$ alkenyl), -OC(O)(C_2-$_6$ alkynyl), -OC(O)(C_{3-15} cycloalkyl), -OC(O)(C_{1-8} haloalkyl), -OC(O)(C_{6-10} aryl), -OC(O)(5-12

membered heteroaryl), -OC(O)(4-12 membered heterocyclyl), -NH_2, -NH(C_{1-9} alkyl), -NH(C_{2-6} alkenyl), -NH(C_{2-6} alkynyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{2-6} alkenyl)$_2$, -N(C_{2-6} alkynyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{1-8} haloalkyl)$_2$, -N(C_{6-10} aryl)$_2$, -N(5-12 membered heteroaryl)$_2$, -N(h4-12 membered heterocyclyl)$_2$, -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{2-6} alkenyl), -N(C_{1-9} alkyl)(C_{2-6} alkynyl), -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{1-8} haloalkyl), -N(C_{1-9} alkyl)(C_{6-10} aryl), -N(C_{1-9} alkyl) (5-12 membered heteroaryl), -N(C_{1-9} alkyl)(4-12 membered heterocyclyl), -C(O)(C_{1-9} alkyl), -C(O)(C_{2-6} alkenyl), -C(O)(C_{2-6} alkynyl), -C(O)(C_{3-15} cycloalkyl), -C(O)(C_{1-8} haloalkyl), -C(O)(C_{6-10} aryl), -C(O)(5-12 membered heteroaryl), -C(O)(4-12 membered heterocyclyl), -C(O)O(C_{1-9} alkyl), -C(O)O(C_{2-6} alkenyl), -C(O)O(C_{2-6} alkynyl), -C(O)O(C_{3-15} cycloalkyl), -C(O)O(C_{1-8} haloalkyl), -C(O)O(C_{6-10} aryl), -C(O)O(5-12 membered heteroaryl), -C(O)O(4-12 membered heterocyclyl), -C(O)NH_2, -C(O)NH(C_{1-9} alkyl), -C(O)NH(C_{2-6} alkenyl), -C(O)NH(C_{2-6} alkynyl), -C(O)NH(C_{3-15} cycloalkyl), -C(O)NH(C_{1-8} haloalkyl), -C(O)NH(C_{6-10} aryl), -C(O)NH(5-12 membered heteroaryl), -C(O)NH(4-12 membered heterocyclyl), -C(O)N(C_{1-9} alkyl)$_2$, -C(O)N(C_{3-15} cycloalkyl)$_2$, -C(O)N(C_{2-6} alkenyl)$_2$, -C(O)N(C_{2-6} alkynyl)$_2$, -C(O)N(C_{1-8} haloalkyl)$_2$, -C(O)N(C_{6-10} aryl)$_2$, -C(O)N(5-12 membered heteroaryl)$_2$, -C(O)N(4-12 membered heterocyclyl)$_2$, -NHC(O)(C_{1-9} alkyl), -NHC(O)(C_{2-6} alkenyl), -NHC(O)(C_{2-6} alkynyl), -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkenyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -NHC(O)NH(C_{2-6} alkenyl), -NHC(O)NH(C_{2-6} alkynyl), -NHC(O)NH(C_{3-15} cycloalkyl), -NHC(O)NH(C_{1-8} haloalkyl), -NHC(O)NH(C_{6-10} aryl), -NHC(O)NH(5-12 membered heteroaryl), -NHC(O)NH(4-12 membered heterocyclyl), -SH, -S(C_{1-9} alkyl), -S(C_{2-6} alkenyl), -S(C_{2-6} alkynyl), -S(C_{3-15} cycloalkyl), -S(C_{1-8} haloalkyl), -S(C_{6-10} aryl),
-S(5-12 membered heteroaryl), -S(4-12 membered heterocyclyl), -NHS(O)(C_{1-9} alkyl), -N(C_{1-9} alkyl)(S(O)(C_{1-9} alkyl), -S(O)N(C_{1-9} alkyl)$_2$, -S(O)(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), -S(O)(C_{2-6} alkenyl), -S(O)(C_{2-6} alkynyl), -S(O)(C_{3-15} cycloalkyl), -S(O)(C_{1-8} haloalkyl), -S(O)(C_{6-10} aryl), -S(O)(5-12 membered heteroaryl), -S(O)(4-12 membered heterocyclyl), -S(O)$_2$(C_{1-9} alkyl), -S(O)$_2$(C_{2-6} alkenyl), -S(O)$_2$(C_{2-6} alkynyl), -S(O)$_2$(C_{3-15} cycloalkyl), -S(O)$_2$(C_{1-8} haloalkyl), -S(O)$_2$(C_{6-10} aryl), -S(O)$_2$(5-12 membered heteroaryl), -S(O)$_2$(4-12 membered heterocyclyl), -S(O)$_2$NH(C_{1-9} alkyl), and -S(O)$_2$N(C_{1-9} alkyl)$_2$; wherein any alkyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl of R^{15} is optionally substituted with one or more halo, C_{1-9} alkyl, C_{1-8} haloalkyl, -OH, -NH_2, -NH(C_{1-9} alkyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15}

cycloalkyl)$_2$, -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), -S(O)$_2$(C_{1-9} alkyl), -S(O)$_2$(C_{3-15} cycloalkyl), -S(O)$_2$(C_{1-8} haloalkyl), -S(O)$_2$(C_{6-10} aryl), -S(O)$_2$(5-12 membered heteroaryl), -S(O)$_2$(4-12 membered heterocyclyl), -S(O)$_2$NH(C_{1-9} alkyl), -S(O)$_2$N(C_{1-9} alkyl)$_2$, -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), or -O(C_{1-9} alkyl);

R^{16} is independently selected from H, C=O, halo, -NO_2, -CN, C_{1-9} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-15} cycloalkyl, C_{1-8} haloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl, 4-12 membered heterocyclyl, -OH, -O(C_{1-9} alkyl), -O(C_{2-6} alkenyl), -O(C_{2-6} alkynyl), -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), -NH_2, -NH(C_{1-9} alkyl), -NH(C_{2-6} alkenyl), -NH(C_{2-6} alkynyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{2-6} alkenyl)$_2$, -N(C_{2-6} alkynyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{1-8} haloalkyl)$_2$, -N(C_{6-10} aryl)$_2$, -N(5-12 membered heteroaryl)$_2$, -N(4-12 membered heterocyclyl)$_2$, -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{2-6} alkenyl), -N(C_{1-9} alkyl)(C_{2-6} alkynyl), -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{1-8} haloalkyl), -N(C_{1-9} alkyl)(C_{6-10} aryl), -N(C_{1-9} alkyl)(5-12 membered heteroaryl), -N(C_{1-9} alkyl)(4- 12 membered heterocyclyl), -C(O)(C_{1-9} alkyl), -C(O)(C_{2-6} alkenyl), -C(O)(C_{2-6} alkynyl), -C(O)(C_{3-15} cycloalkyl), -C(O)(C_{1-8} haloalkyl), -C(O)(C_{6-10} aryl), -C(O)(5-12 membered heteroaryl), -C(O)(4-12 membered heterocyclyl), -C(O)O(C_{1-9} alkyl), -C(O)O(C_{2-6} alkenyl), -C(O)O(C_{2-6} alkynyl), -C(O)O(C_{3-15} cycloalkyl), -C(O)O(C_{1-8} haloalkyl), -C(O)O(C_{6-10} aryl), -C(O)O(5-12 membered heteroaryl), -C(O)O(4-12 membered heterocyclyl), -C(O)NH_2, -C(O)NH(C_{1-9} alkyl), -C(O)NH(C_{2-6} alkenyl), -C(O)NH(C_{2-6} alkynyl), -C(O)NH(C_{3-15} cycloalkyl), -C(O)NH(C_{1-8} haloalkyl), -C(O)NH(C_{6-10} aryl), -C(O)NH(5-12 membered heteroaryl), -C(O)NH(4-12 membered heterocyclyl), -C(O)N(C_{1-9} alkyl)$_2$, -C(O)N(C_{3-15} cycloalkyl)$_2$, -C(O)N(C_{2-6} alkenyl)$_2$, -C(O)N(C_{2-6} alkynyl)$_2$, -C(O)N(C_{3-15} cycloalkyl)$_2$, -C(O)N(C_{1-8} haloalkyl)$_2$, -C(O)N(C_{6-10} aryl)$_2$, -C(O)N(5-12 membered heteroaryl)$_2$, -C(O)N(4-12 membered heterocyclyl)$_2$, -NHC(O)(C_{1-9} alkyl), -NHC(O)(C_{2-6} alkenyl), -NHC(O)(C_{2-6} alkynyl), -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkenyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -NHC(O)NH(C_{2-6} alkenyl), -NHC(O)NH(C_{2-6} alkynyl), -NHC(O)NH(C_{3-15} cycloalkyl), -NHC(O)NH(C_{1-8} haloalkyl), -NHC(O)NH(C_{6-10} aryl), -NHC(O)NH(5-12

membered heteroaryl), -NHC(O)NH(4-12 membered heterocyclyl), -SH, -S(C_{1-9} alkyl), -S(C_{2-6} alkenyl), -S(C_{2-6} alkynyl), -S(C_{3-15} cycloalkyl), -S(C_{1-8} haloalkyl), -S(C_{6-10} aryl), -S(5-12 membered heteroaryl), -S(4-12 membered heterocyclyl), -NHS(O)(C_{1-9} alkyl), -N(C_{1-9} alkyl)(S(O)(C_{1-9} alkyl), -S(O)N(C_{1-9} alkyl)$_2$, -S(O)(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), -S(O)(NH)(C_{3-9} cycloalkyl), -S(O)(N C_{1-9} alkyl)(C_{1-9} alkyl), -S(O)(NH)(C_{6-10} aryl), -S(O)(NH)(5-12 membered heteroaryl), -S(O)(C_{2-6} alkenyl), -S(O)(C_{2-6} alkynyl), -S(O)(C_{3-15} cycloalkyl), -S(O)(C_{1-8} haloalkyl), -S(O)(C_{6-10} aryl), -S(O)(5-12 membered heteroaryl), -S(O)(4-12 membered heterocyclyl), -S(O)$_2$(C_{1-9} alkyl), -S(O)$_2$(C_{2-6} alkenyl), -S(O)$_2$(C_{2-6} alkynyl), -S(O)$_2$(C_{3-15} cycloalkyl), -S(O)$_2$(C_{1-8} haloalkyl), -S(O)$_2$(C_{6-10} aryl), -S(O)$_2$(5-12 membered heteroaryl), -S(O)$_2$(4-12 membered heterocyclyl), -S(O)$_2$NH(C_{1-9} alkyl), and -S(O)$_2$N(C_{1-9} alkyl)$_2$, wherein any alkyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more halo, C_{1-9} alkyl, C_{1-8} haloalkyl, -OH, -NH_2, -NH(C_{1-9} alkyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), S(O)$_2$(C_{1-9} alkyl), -S(O)$_2$(C_{3-15} cycloalkyl), -S(O)$_2$(C_{1-8} haloalkyl), -S(O)$_2$(C_{6-10} aryl), -S(O)$_2$(5-12 membered heteroaryl), -S(O)$_2$(4-12 membered heterocyclyl), -S(O)$_2$NH(C_{1-9} alkyl), -S(O)$_2$N(C_{1-9} alkyl)$_2$, -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), or -O(C_{1-9} alkyl); and

R^{17} and R^{18} are independently selected from H, C_{1-9} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-15} cycloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl, and 4-12 membered heterocyclyl wherein any alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more with R^{16}.

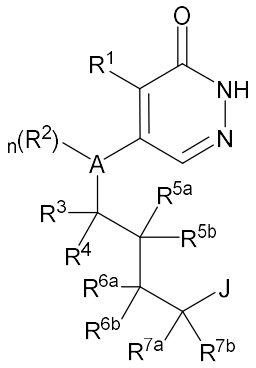
2. The compound of claim 1, wherein: L^1 and L^2, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, optionally substituted with one or more with R^{15}; wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged optionally substituted with one or more R^{15}.

3. The compound of claim 1, wherein: L^2 and L^3, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, optionally substituted with one or more with R^{15}; wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged optionally substituted with one or more R^{15}.

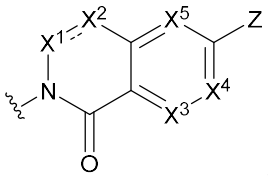
4. The compound of claim 1, wherein: L^3 and L^4, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, optionally substituted with one or more with R^{15}; wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged optionally substituted with one or more R^1.

5. The compound of claim 1, wherein: L^2 and L^4, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, optionally substituted with one or more with R^{15}; wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged optionally substituted with one or more R^{15}.

6. The compound of claim 1, wherein the compound is represented by Formula Ia:



(Ia),

or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, wherein J is 

;

X^1 is N, C=O, C-R^{10}, or C-$(R^{10})_2$; X^2 is N, N-R^{11}, C-R^{12}, or C-$(R^{12})_2$; X^3 is N or C-R^{13}; X^4 is N

or C-R^{13}; X^5 is N or C-R^{13}; or

A is selected from C, O, N; 3-10 membered cycloalkyl optionally substituted with one or

more R^{15}; and 4-11 membered heterocyclyl, optionally substituted with one or more R^{15};

when A is O, n is 0; when A is N, n is 1; and when A is C, n is 1 or 2;

R^1 is selected from H, halo, CH_3, CH_2CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, CN, O-R^{14}, C(O)-R^{14}, -SF_5; C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{15}, N(R^{17})C(O)O-R^{15}, N(R^7)S(O)$_2$(R^{15}),

$N(R^{17})C(O)$-$N(R^{17})(R^{18})$, $S(O)_2R^{15}$, $S(O)_2N(R^{17})(R^{18})$, $S(O)(NH)R^{17}$, $S(O)(NR^{17})NR^{18}$; C_{1-5} alkyl optionally substituted with one or more R^{15}; C_{3-10} cycloalkyl optionally substituted with one or more R^{15}; 5-10 membered heteroaryl optionally substituted with one or more R^{15}; C_{6-10} aryl optionally substituted with one or more R^{15}; and 4-7 membered heterocyclyl optionally substituted with one or more R^{15};

R^2 is selected from H, C_{1-9} alkyl, C_{2-9} alkenyl, and C_{2-9} alkynyl, wherein any alkyl, alkenyl, and alkynyl are optionally substituted with one or more R^{10};

R^3 and R^4 are each independently selected from H, C_{1-9} alkyl, C_{2-9} alkenyl, C_{2-9} alkynyl, wherein any alkyl, alkenyl, and alkynyl are optionally substituted with one or more R^{15}, C_{3-12} cycloalkyl optionally substituted with one or more R^{15}, C_{6-10} aryl optionally substituted with one or more R^{15}, 4-11 membered heterocyclyl optionally substituted with one or more R^{15}, and 5-10 membered heteroaryl optionally substituted with one or more R^{15}; or

R^2 and R^3, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, optionally substituted with one or more with R^{15}; wherein a 4-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged optionally substituted with one or more R^{15}; or

R^3 and R^4, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; wherein a 3-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged each optionally substituted with one or more R^{15};

R^{5a}, R^{5b} R^{6a}, R^{6b} , R^{7a}, and R^{7b} are each independently selected from H, halo, NO_2, CN, O- R^{14}, $C(O)$-R^{16}, $C(O)$-$N(R^{17})(R^{18})$, $N(R^{17})(R^{18})$, $N(R^{17})C(O)$-R^{16}, $N(R^{17})C(O)O$-R^{14}, $N(R^{17})S(O)_2(R^{16})$, -$N(R^{17})C(O)$-$N(R^{18})(R^{18})$, $S(O)_2R^{16}$, -SF_5, $S(O)_2N(R^{17})(R^{18})$, $S(O)(NH)R^{17}$, $S(O)(NR^{17})NR^{18}$, C_{1-9} alkyl optionally substituted with one or more R^{15}; C_{2-9} alkynyl optionally substituted with one or more R^{15}; C_{2-9} alkenyl optionally substituted with one or more R^{15}; 5-12 membered heteroaryl optionally substituted with one or more R^{15}; C_{6-10} aryl optionally substituted with one or more R^{15}; 4-12 membered heterocyclyl optionally substituted with one or more R^{15}; and C_{3-12} cycloalkyl optionally substituted with one or more R^{15}; or

R^{5a} and R^{5b}, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15};

R^{6a} and R^{6b} together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, each optionally substituted with one or more with R^{15}; or

R^{7a} and R^{7b}, together with the atoms to which they are attached, form a 3-12 membered cycloalkyl, or a 4-12 membered heterocycle, each optionally substituted with one or more with

R^{15} wherein a 3-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged each optionally substituted with one or more R^{15};

Z is selected from -CN, C_{1-9} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{1-8} haloalkyl, -O(C_{1-9} alkyl), -O(C_{2-6} alkenyl), -O(C_{2-6} alkynyl), -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), -OC(O) (C_{1-9} alkyl), -OC(O)(C_{2-6} alkenyl), -OC(O)(C_{2-6} alkenyl), -OC(O)(C_{2-6} alkynyl), -OC(O)(C_{3-15} cycloalkyl), -OC(O)(C_{1-8} haloalkyl), -OC(O)(C_{6-10} aryl), -OC(O)(5-12 membered heteroaryl), -OC(O)(4-12 membered heterocyclyl), -NH_2, -NH(C_{1-9} alkyl), -NH(C_{2-6} alkenyl), -NH(C_{2-6} alkynyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{2-6} alkenyl)$_2$, -N(C_{2-6} alkynyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{1-8} haloalkyl)$_2$, -N(C_{6-10} aryl)$_2$, -N(5-12 membered heteroaryl)$_2$, -N(h4-12 membered heterocyclyl)$_2$, -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{2-6} alkenyl), -N(C_{1-9} alkyl)(C_{2-6} alkynyl), -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{1-8} haloalkyl), -N(C_{1-9} alkyl)(C_{6-10} aryl), -N(C_{1-9} alkyl) (5-12 membered heteroaryl), -N(C_{1-9} alkyl)(4-12 membered heterocyclyl), -C(O)(C_{1-9} alkyl), -C(O)(C_{2-6} alkenyl), -C(O)(C_{2-6} alkynyl), -C(O)(C_{3-15} cycloalkyl), -C(O)(C_{1-8} haloalkyl), -C(O)(C_{6-10} aryl), -C(O)(5-12 membered heteroaryl), -C(O)(4-12 membered heterocyclyl), -C(O)O(C_{1-9} alkyl), -C(O)O(C_{2-6} alkenyl), -C(O)O(C_{2-6} alkynyl), -C(O)O(C_{3-15} cycloalkyl), -C(O)O(C_{1-8} haloalkyl), -C(O)O(C_{6-10} aryl), -C(O)O(5-12 membered heteroaryl), -C(O)O(4-12 membered heterocyclyl), -C(O)NH_2, -C(O)NH(C_{1-9} alkyl), -C(O)NH(C_{2-6} alkenyl), -C(O)NH(C_{2-6} alkynyl), -C(O)NH(C_{3-15} cycloalkyl), -C(O)NH(C_{1-8} haloalkyl), -C(O)NH(C_{6-10} aryl), -C(O)NH(5-12 membered heteroaryl), -C(O)NH(4-12 membered heterocyclyl), -C(O)N(C_{1-9} alkyl)$_2$, -C(O)N(C_{3-15} cycloalkyl)$_2$, -C(O)N(C_{2-6} alkenyl)$_2$, -C(O)N(C_{2-6} alkynyl)$_2$, -C(O)N(C_{1-8} haloalkyl)$_2$, -C(O)N(C_{6-10} aryl)$_2$, -C(O)N(5-12 membered heteroaryl)$_2$, -C(O)N(4-12 membered heterocyclyl)$_2$, -NHC(O)(C_{1-9} alkyl), -NHC(O)(C_{2-6} alkenyl), -NHC(O)(C_{2-6} alkynyl), -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkenyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -NHC(O)NH(C_{2-6} alkenyl), -NHC(O)NH(C_{2-6} alkynyl), -NHC(O)NH(C_{3-15} cycloalkyl), -NHC(O)NH(C_{1-8} haloalkyl), -NHC(O)NH(C_{6-10} aryl), -NHC(O)NH(5-12 membered heteroaryl), -NHC(O)NH(4-12 membered heterocyclyl), -SH, -S(C_{1-9} alkyl), -S(C_{2-6} alkenyl), -S(C_{2-6} alkynyl), -S(C_{3-15} cycloalkyl), -S(C_{1-8} haloalkyl), -S(C_{6-10} aryl), -S(5-12 membered heteroaryl), -S(4-12 membered heterocyclyl), -NHS(O)(C_{1-9} alkyl), -N(C_{1-9} alkyl)(S(O)(C_{1-9} alkyl), -S(O)N(C_{1-9} alkyl)$_2$, -S(O)(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), -S(O)(C_{2-6} alkenyl), -S(O)(C_{2-6} alkynyl), -S(O)(C_{3-15} cycloalkyl), -S(O)(C_{1-8} haloalkyl), -S(O)(C_{6-10} aryl), -S(O)(5-12 membered heteroaryl), -S(O)(4-12 membered heterocyclyl), -S(O)$_2$(C_{1-9} alkyl), -

$S(O)_2(C_{2-6}$ alkenyl), -$S(O)_2(C_{2-6}$ alkynyl), -$S(O)_2(C_{3-15}$ cycloalkyl), -$S(O)_2(C_{1-8}$ haloalkyl), -$S(O)_2(C_{6-10}$ aryl), -$S(O)_2$(5-12 membered heteroaryl), -$S(O)_2$(4-12 membered heterocyclyl), -$S(O)_2NH(C_{1-9}$ alkyl), and -$S(O)_2N(C_{1-9}$ alkyl)$_2$; wherein any alkyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl of R^{15} is optionally substituted with one or more halo, C_{1-9} alkyl, C_{1-8} haloalkyl, -OH, $-NH_2$, -NH(C_{1-9} alkyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), -$S(O)_2$(C_{1-9} alkyl), -$S(O)_2$(C_{3-15} cycloalkyl), -$S(O)_2$(C_{1-8} haloalkyl), -$S(O)_2$(C_{6-10} aryl), -$S(O)_2$(5-12 membered heteroaryl), -$S(O)_2$(4-12 membered heterocyclyl), -$S(O)_2NH(C_{1-9}$ alkyl), -$S(O)_2N(C_{1-9}$ alkyl)$_2$, -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), -O(C_{1-9} alkyl), 5-12 membered heteroaryl substituted with one or more R^{13}, C_{6-10} aryl optionally substituted with one or more R^{15}, C_{3-12} cycloalkyl optionally substituted with one or more R^{15}, or 4-12 membered heterocyclyl substituted with one or more R^{15}, wherein any 5-12 membered heteroaryl, C_{6-10} aryl, C_{3-12} cycloalkyl, or 4-12 membered heterocyclyl, is monocyclic, bicyclic, substituted with one or more R^{15} and 3-12 membered cycloalkyl or 4-12 membered heterocyclyl is monocyclic, bicyclic, fused bicyclic, spirocyclic or bridged each substituted with one or more R^{15};

R^{10} is selected from H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})$S(O)_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), $S(O)_2R^{16}$, $-SF_5$, $S(O)_2N(R^{17})(R^{18})$, S(O)(NH)R^{17}, S(O)(NR^{17})NR^{18}, C_{1-9} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-15} cycloalkyl, C_{6-10} aryl, 5-10 membered heteroaryl, and 4-12 membered heterocyclyl, wherein any alkyl, alkenyl, alkenyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more with R^{16};

R^{11} is selected from H, C_{1-9} alkyl, C_{2-9} alkenyl, C_{2-9} alkynyl, C_{3-12} cycloalkyl, C_{6-10} aryl, 6-12 membered heteroaryl, and 4-12 membered heterocyclyl, wherein any alkyl, alkenyl, alkenyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more with R^{16};

R^{12} is selected from H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14},, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})$S(O)_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), $S(O)_2R^{16}$, $S(O)_2N(R^{17})(R^{18})$, S(O)(NH)R^{17}, S(O)(NR^{17})NR^{18}, C_{1-9} alkyl, C_{2-9} alkenyl, C_{2-9} alkynyl, C_{3-12} cycloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl, and 4-12 membered heterocyclyl, wherein any alkyl, alkenyl, alkenyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more with R^{16};

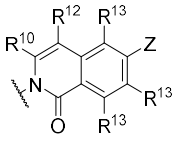
R^{13} is independently selected from H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O-R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})S(O)$_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), -SF_5, S(O)$_2$$R^{16}$, S(O)$_2$N($R^{17}$)($R^{18}$), S(O)(NH)$R^{17}$, S(O)(N$R^{17}$)N$R^{18}$, C_{1-9} alkyl, C_{2-9} alkenyl, C_{2-9} alkynyl, C_{3-12} cycloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl, and 4-12 membered heterocyclyl, wherein any alkyl, alkenyl, alkenyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more with R^{16};
R^{15} is independently selected from H, C=O, hydroxy, halo, -NO_2, -N_3, -CN, C_{1-9} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-15} cycloalkyl, C_{1-8} haloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl, 4-12 membered heterocyclyl, -O(C_{1-9} alkyl), -O(C_{2-6} alkenyl), -O(C_{2-6} alkynyl), -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), -OC(O) (C_{1-9} alkyl), -OC(O)(C_{2-6} alkenyl), -OC(O)(C_{2-6} alkenyl), -OC(O)(C_{2-6} alkynyl), -OC(O)(C_{3-15} cycloalkyl), -OC(O)(C_{1-8} haloalkyl), -OC(O)(C_{6-10} aryl), -OC(O)(5-12 membered heteroaryl), -OC(O)(4-12 membered heterocyclyl), -NH_2, -NH(C_{1-9} alkyl), -NH(C_{2-6} alkenyl), -NH(C_{2-6} alkynyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{2-6} alkenyl)$_2$, -N(C_{2-6} alkynyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{1-8} haloalkyl)$_2$, -N(C_{6-10} aryl)$_2$, -N(5-12 membered heteroaryl)$_2$, -N(4-12 membered heterocyclyl)$_2$, -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{2-6} alkenyl), -N(C_{1-9} alkyl)(C_{2-6} alkynyl), -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{1-8} haloalkyl), -N(C_{1-9} alkyl)(C_{6-10} aryl), -N(C_{1-9} alkyl) (5-12 membered heteroaryl), -N(C_{1-9} alkyl)(4-12 membered heterocyclyl), -C(O)(C_{1-9} alkyl), -C(O)(C_{2-6} alkenyl), -C(O)(C_{2-6} alkynyl), -C(O)(C_{3-15} cycloalkyl), -C(O)(C_{1-8} haloalkyl), -C(O)(C_{6-10} aryl), -C(O)(5-12 membered heteroaryl), -C(O)(4-12 membered heterocyclyl), -C(O)O(C_{1-9} alkyl), -C(O)O(C_{2-6} alkenyl), -C(O)O(C_{2-6} alkynyl), -C(O)O(C_{3-15} cycloalkyl), -C(O)O(C_{1-8} haloalkyl), -C(O)O(C_{6-10} aryl), -C(O)O(5-12 membered heteroaryl), -C(O)O(4-12 membered heterocyclyl), -C(O)NH_2, -C(O)NH(C_{1-9} alkyl), -C(O)NH(C_{2-6} alkenyl), -C(O)NH(C_{2-6} alkynyl), -C(O)NH(C_{3-15} cycloalkyl), -C(O)NH(C_{1-8} haloalkyl), -C(O)NH(C_{6-10} aryl), -C(O)NH(5-12 membered heteroaryl), -C(O)NH(4-12 membered heterocyclyl), -C(O)N(C_{1-9} alkyl)$_2$, -C(O)N(C_{3-15} cycloalkyl)$_2$, -C(O)N(C_{2-6} alkenyl)$_2$, -C(O)N(C_{2-6} alkynyl)$_2$, -C(O)N(C_{1-8} haloalkyl)$_2$, -C(O)N(C_{6-10} aryl)$_2$, -C(O)N(5-12 membered heteroaryl)$_2$, -C(O)N(4-12 membered heterocyclyl)$_2$, -NHC(O)(C_{1-9} alkyl), -NHC(O)(C_{2-6} alkenyl), -NHC(O)(C_{2-6} alkynyl), -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkenyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -NHC(O)NH(C_{2-6} alkenyl), -NHC(O)NH(C_{2-6} alkynyl), -NHC(O)NH(C_{3-15} cycloalkyl), -NHC(O)NH(C_{1-8} haloalkyl), -NHC(O)NH(C_{6-10} aryl), -NHC(O)NH(5-12 membered heteroaryl), -NHC(O)NH(4-12 membered heterocyclyl), -SH, -S(C_{1-}

$_9$ alkyl), -S(C_{2-6} alkenyl), -S(C_{2-6} alkynyl), -S(C_{3-15} cycloalkyl), -S(C_{1-8} haloalkyl), -S(C_{6-10} aryl), -S(5-12 membered heteroaryl), -S(4-12 membered heterocyclyl), -NHS(O)(C_{1-9} alkyl), -N(C_{1-9} alkyl)(S(O)(C_{1-9} alkyl), -S(O)N(C_{1-9} alkyl)$_2$, -S(O)(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), -S(O)(C_{2-6} alkenyl), -S(O)(C_{2-6} alkynyl), -S(O)(C_{3-15} cycloalkyl), -S(O)(C_{1-8} haloalkyl), -S(O)(C_{6-10} aryl), -S(O)(5-12 membered heteroaryl), -S(O)(4-12 membered heterocyclyl), -S(O)$_2$(C_{1-9} alkyl), -S(O)$_2$(C_{2-6} alkenyl), -S(O)$_2$(C_{2-6} alkynyl), -S(O)$_2$(C_{3-15} cycloalkyl), -S(O)$_2$(C_{1-8} haloalkyl), -S(O)$_2$(C_{6-10} aryl), -S(O)$_2$(5-12 membered heteroaryl), -S(O)$_2$(4-12 membered heterocyclyl), -S(O)$_2$NH(C_{1-9} alkyl), amd -S(O)$_2$N(C_{1-9} alkyl)$_2$; wherein any alkyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl of R^{15} is optionally substituted with one or more halo, C_{1-9} alkyl, C_{1-8} haloalkyl, -OH, -NH_2, -NH(C_{1-9} alkyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), -S(O)$_2$(C_{1-9} alkyl), -S(O)$_2$(C_{3-15} cycloalkyl), -S(O)$_2$(C_{1-8} haloalkyl), -S(O)$_2$(C_{6-10} aryl), -S(O)$_2$(5-12 membered heteroaryl), -S(O)$_2$(4-12 membered heterocyclyl), -S(O)$_2$NH(C_{1-9} alkyl), -S(O)$_2$N(C_{1-9} alkyl)$_2$, -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), or -O(C_{1-9} alkyl);

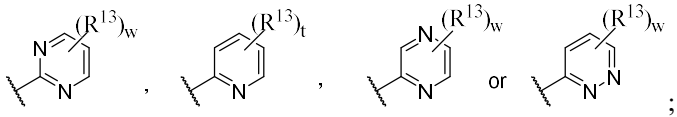
R^{16} is independently selected from H, C=O, halo, -NO_2, -CN, C_{1-9} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-15} cycloalkyl, C_{1-8} haloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl, 4-12 membered heterocyclyl, -OH, -O(C_{1-9} alkyl), -O(C_{2-6} alkenyl), -O(C_{2-6} alkynyl), -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), -NH_2, -NH(C_{1-9} alkyl), -NH(C_{2-6} alkenyl), -NH(C_{2-6} alkynyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{2-6} alkenyl)$_2$, -N(C_{2-6} alkynyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -N(C_{1-8} haloalkyl)$_2$, -N(C_{6-10} aryl)$_2$, -N(5-12 membered heteroaryl)$_2$, -N(4-12 membered heterocyclyl)$_2$, -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{2-6} alkenyl), -N(C_{1-9} alkyl)(C_{2-6} alkynyl), -N(C_{1-9} alkyl)(C_{3-15} cycloalkyl), -N(C_{1-9} alkyl)(C_{1-8} haloalkyl), -N(C_{1-9} alkyl)(C_{6-10} aryl), -N(C_{1-9} alkyl)(5-12 membered heteroaryl), -N(C_{1-9} alkyl)(4- 12 membered heterocyclyl), -C(O)(C_{1-9} alkyl), -C(O)(C_{2-6} alkenyl), -C(O)(C_{2-6} alkynyl), -C(O)(C_{3-15} cycloalkyl), -C(O)(C_{1-8} haloalkyl), -C(O)(C_{6-10} aryl), -C(O)(5-12 membered heteroaryl), -C(O)(4-12 membered heterocyclyl), -C(O)O(C_{1-9} alkyl), -C(O)O(C_{2-6} alkenyl), -C(O)O(C_{2-6} alkynyl), -C(O)O(C_{3-15} cycloalkyl), -C(O)O(C_{1-8} haloalkyl), -C(O)O(C_{6-10} aryl), -C(O)O(5-12 membered heteroaryl), -C(O)O(4-12 membered heterocyclyl), -C(O)NH_2, -C(O)NH(C_{1-9} alkyl), -C(O)NH(C_{2-6} alkenyl), -C(O)NH(C_{2-6} alkynyl), -C(O)NH(C_{3-15} cycloalkyl), -C(O)NH(C_{1-8}

haloalkyl), -C(O)NH(C_{6-10} aryl), -C(O)NH(5-12 membered heteroaryl), -C(O)NH(4-12 membered heterocyclyl), -C(O)N(C_{1-9} alkyl)$_2$, -C(O)N(C_{3-15} cycloalkyl)$_2$, -C(O)N(C_{2-6} alkenyl)$_2$, -C(O)N(C_{2-6} alkynyl)$_2$, -C(O)N(C_{3-15} cycloalkyl)$_2$, -C(O)N(C_{1-8} haloalkyl)$_2$, -C(O)N(C_{6-10} aryl)$_2$, -C(O)N(5-12 membered heteroaryl)$_2$, -C(O)N(4-12 membered heterocyclyl)$_2$, -NHC(O)(C_{1-9} alkyl), -NHC(O)(C_{2-6} alkenyl), -NHC(O)(C_{2-6} alkynyl), -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkenyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -NHC(O)NH(C_{2-6} alkenyl), -NHC(O)NH(C_{2-6} alkynyl), -NHC(O)NH(C_{3-15} cycloalkyl), -NHC(O)NH(C_{1-8} haloalkyl), -NHC(O)NH(C_{6-10} aryl), -NHC(O)NH(5-12 membered heteroaryl), -NHC(O)NH(4-12 membered heterocyclyl), -SH, -S(C_{1-9} alkyl), -S(C_{2-6} alkenyl), -S(C_{2-6} alkynyl), -S(C_{3-15} cycloalkyl), -S(C_{1-8} haloalkyl), -S(C_{6-10} aryl), -S(5-12 membered heteroaryl), -S(4-12 membered heterocyclyl), -NHS(O)(C_{1-9} alkyl), -N(C_{1-9} alkyl)(S(O)(C_{1-9} alkyl), -S(O)N(C_{1-9} alkyl)$_2$, -S(O)(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), -S(O)(NH)(C_{3-9} cycloalkyl), -S(O)(N C_{1-9} alkyl)(C_{1-9} alkyl), -S(O)(NH)(C_{6-10} aryl), -S(O)(NH)(5-12 membered heteroaryl), -S(O)(C_{2-6} alkenyl), -S(O)(C_{2-6} alkynyl), -S(O)(C_{3-15} cycloalkyl), -S(O)(C_{1-8} haloalkyl), -S(O)(C_{6-10} aryl), -S(O)(5-12 membered heteroaryl), -S(O)(4-12 membered heterocyclyl), -S(O)$_2$(C_{1-9} alkyl), -S(O)$_2$(C_{2-6} alkenyl), -S(O)$_2$(C_{2-6} alkynyl), -S(O)$_2$(C_{3-15} cycloalkyl), -S(O)$_2$(C_{1-8} haloalkyl), -S(O)$_2$(C_{6-10} aryl), -S(O)$_2$(5-12 membered heteroaryl), -S(O)$_2$(4-12 membered heterocyclyl), -S(O)$_2$NH(C_{1-9} alkyl), and -S(O)$_2$N(C_{1-9} alkyl)$_2$, wherein any alkyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more halo, C_{1-9} alkyl, C_{1-8} haloalkyl, -OH, -NH$_2$, -NH(C_{1-9} alkyl), -NH(C_{3-15} cycloalkyl), -NH(C_{1-8} haloalkyl), -NH(C_{6-10} aryl), -NH(5-12 membered heteroaryl), -NH(4-12 membered heterocyclyl), -N(C_{1-9} alkyl)$_2$, -N(C_{3-15} cycloalkyl)$_2$, -NHC(O)(C_{3-15} cycloalkyl), -NHC(O)(C_{1-8} haloalkyl), -NHC(O)(C_{6-10} aryl), -NHC(O)(5-12 membered heteroaryl), -NHC(O)(4-12 membered heterocyclyl), -NHC(O)O(C_{1-9} alkyl), -NHC(O)O(C_{2-6} alkynyl), -NHC(O)O(C_{3-15} cycloalkyl), -NHC(O)O(C_{1-8} haloalkyl), -NHC(O)O(C_{6-10} aryl), -NHC(O)O(5-12 membered heteroaryl), -NHC(O)O(4-12 membered heterocyclyl), -NHC(O)NH(C_{1-9} alkyl), -S(O)(NH)(C_{1-9} alkyl), S(O)$_2$(C_{1-9} alkyl), -S(O)$_2$(C_{3-15} cycloalkyl), -S(O)$_2$(C_{1-8} haloalkyl), -S(O)$_2$(C_{6-10} aryl), -S(O)$_2$(5-12 membered heteroaryl), -S(O)$_2$(4-12 membered heterocyclyl), -S(O)$_2$NH(C_{1-9} alkyl), -S(O)$_2$N(C_{1-9} alkyl)$_2$, -O(C_{3-15} cycloalkyl), -O(C_{1-8} haloalkyl), -O(C_{6-10} aryl), -O(5-12 membered heteroaryl), -O(4-12 membered heterocyclyl), or -O(C_{1-9} alkyl); and

R^{17} and R^{18} are independently selected from H, C_{1-9} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-15} cycloalkyl, C_{6-10} aryl, 5-12 membered heteroaryl, and 4-12 membered heterocyclyl, wherein any alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl is optionally substituted with one or more with R^{16}.

7. The compound of claim 1 or 6, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, wherein J is:  ;

optionally wherein Z is a 5-10 membered heteroaryl optionally independently substituted with one or more R^{13}; optionally wherein Z is selected from:

 ; wherein w is zero to three, inclusive; and t is zero to four, inclusive, and wherein R^{13} is bound to any substitutable position on Z;

optionally wherein w is one to two, inclusive; and t is one to three, inclusive;

optionally wherein R^{13} is independently selected from the group consisting of: H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})S(O)$_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), -SF_5, S(O)$_2$$R^{16}$, S(O)$_2$N($R^{17}$)($R^{18}$), S(O)(NH)$R^{17}$, S(O)(N$R^{17}$)N$R^{18}$, C_{1-9} alkyl, C_{2-9} alkenyl, and C_{2-9} alkynyl,

wherein any alkyl, alkenyl, or alkynyl is optionally substituted with one or more with R^{13};

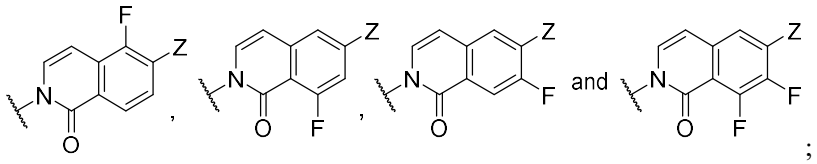
optionally wherein R^{13} is independently selected from the group consisting of: H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, $OCHF_2$, OCF_3, N(R^{17})(R^{18}), CN, O- R^{14}, and C(O)-R^{16};

optionally wherein R^2 is H;

optionally wherein R^3 is H, and R^4 is C_{1-9} alkyl, C_{3-15} cycloalkyl, 4-12 membered heterocyclyl, C_{6-10} aryl, or 5-12 membered heteroaryl, wherein any alkyl, alkenyl, or alkynyl is optionally substituted with one or more with R^{13};

optionally wherein R^4 is methyl or ethyl;

optionally wherein J is independently selected from the group consisting of:

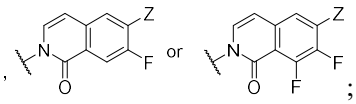
 ;

optionally wherein A is NH;

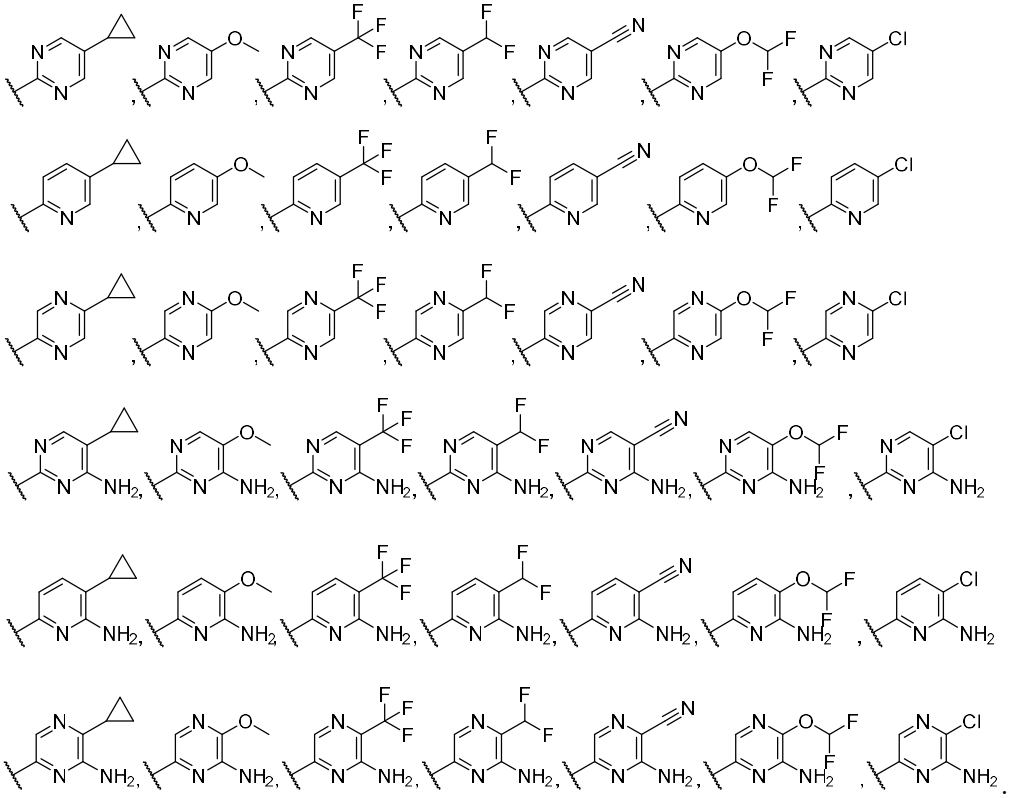
optionally wherein R^{5a}, R^{5b}, R^{6a}, R^{6b}, R^{7a}, and R^{7b} are each H;

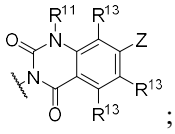
optionally wherein A is CH_2; optionally wherein R^{5a}, R^{5b}, R^{6a}, R^{6b} R^{7a}, and R^{7b} are each H;

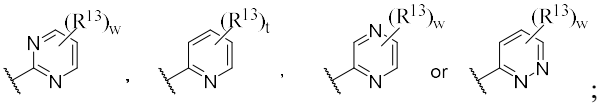
or wherein A is NH and R^4 is methyl or ethyl; optionally wherein J is:



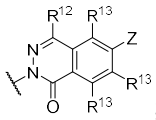
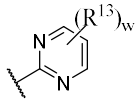
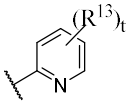
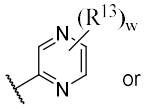
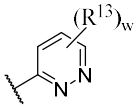
; optionally wherein R^{5a}, R^{5b}, R^{6a}, R^{6b} R^{7a}, and R^{7b} are each H; optionally wherein R^1 is selected from the group consisting of halo, CH_3, CH_2F, CHF_2, CF_3, and $C(O)$-R^{14}; optionally wherein R^1 is CF_3; optionally wherein Z is selected from:



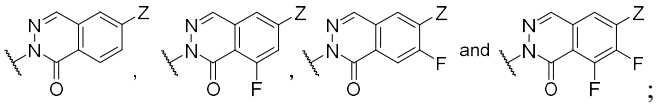
8. The compound of claim 1 or 6, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, wherein J is:  ; optionally wherein Z is a 5-10 membered heteroaryl optionally independently substituted with one or more R^{13}; optionally wherein Z is selected from:



; wherein w is zero to three, inclusive; and t is zero to four, inclusive, and wherein R^{13} is bound to any substitutable position on Z.

9. The compound of claim 1 or 6, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, wherein J is:  ; optionally wherein Z is selected from:  ,  ,  or  ; wherein w is zero to three, inclusive; and t is zero to four, inclusive, wherein R^{13} is bound to any substitutable position on Z;

optionally wherein J is independently selected from the group consisting of:

 ; optionally wherein w is one to two, inclusive; and t is one to three, inclusive, and wherein R^{13} is bound to any substitutable position on Z; optionally wherein R^{13} is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})S(O)$_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), -SF_5, S(O)$_2$$R^{16}$, S(O)$_2$N($R^{17}$)($R^{18}$), S(O)(NH)$R^{17}$, S(O)($NR^{17}$)$NR^{18}$, C_{1-9} alkyl, C_{2-9} alkenyl, C_{2-9} alkynyl, and C_{3-15} cycloalkyl, wherein any alkyl, alkenyl, or alkynyl is optionally substituted with one or more with R^{10}; optionally wherein R^{13} is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, N(R^{17})(R^{18}), CN, O-R^{14}, and C(O)-R^{16};

optionally wherein R^2 is H;

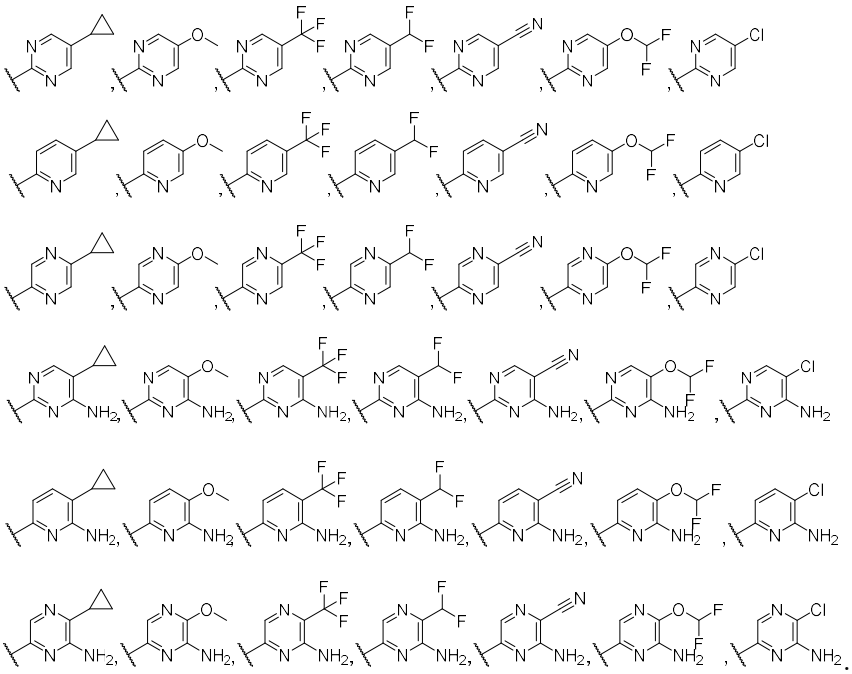
optionally wherein R^3 is H, and R^4 is C_{1-9} alkyl or C_{3-15} cycloalkyl, wherein any alkyl or cycloalkyl is optionally substituted with one or more with R^{13};

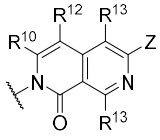
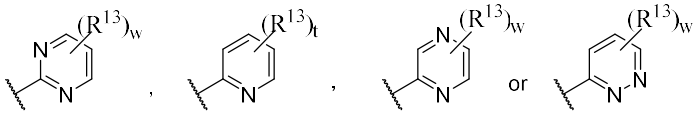
optionally wherein R^4 is methyl or ethyl;

optionally wherein R^{5a}, R^{5b}, R^{6a}, R^{6b} R^{7a}, and R^{7b} are each H;

optionally wherein R^1 is halo, CH_3, CH_2F, CHF_2, CF_3, and C(O)-R^{14}; optionally wherein R^1 is CF_3;

optionally wherein Z is selected from:



10. The compound of claim 1 or 6, wherein J is:  , or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof; optionally wherein Z is selected from:  ; wherein w is zero to three, inclusive; and t is zero to four, inclusive, and wherein R^{13} is bound to any substitutable position on Z;

optionally wherein w is one to two, inclusive; and t is one to three, inclusive, wherein R^{13} is bound to any substitutable position on Z;

optionally wherein R^{13} is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O-R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)OR^{14}, N(R^{17})S(O)$_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), -SF_5, S(O)$_2$$R^{16}$, S(O)$_2$N($R^{17}$)($R^{18}$), S(O)(NH)$R^{17}$, S(O)(N$R^{17}$)N$R^{18}$, C_{1-9} alkyl, C_{2-9} alkenyl, C_{2-9} alkynyl and C_{3-15} cycloalkyl, wherein any alkyl, alkenyl, alkynyl, or cycloalkyl is optionally substituted with one or more with R^{10}; optionally wherein R^{13} is independently selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, N(R^{17})(R^{18}), CN, O-R^{14}, and C(O)-R^{16};

optionally wherein R^2 is H;

optionally wherein R^3 is H, and R^4 is C_{1-9} alkyl, or C_{3-15} cycloalkyl, wherein any alkyl, or cycloalkyl is optionally substituted with one or more with R^{13};

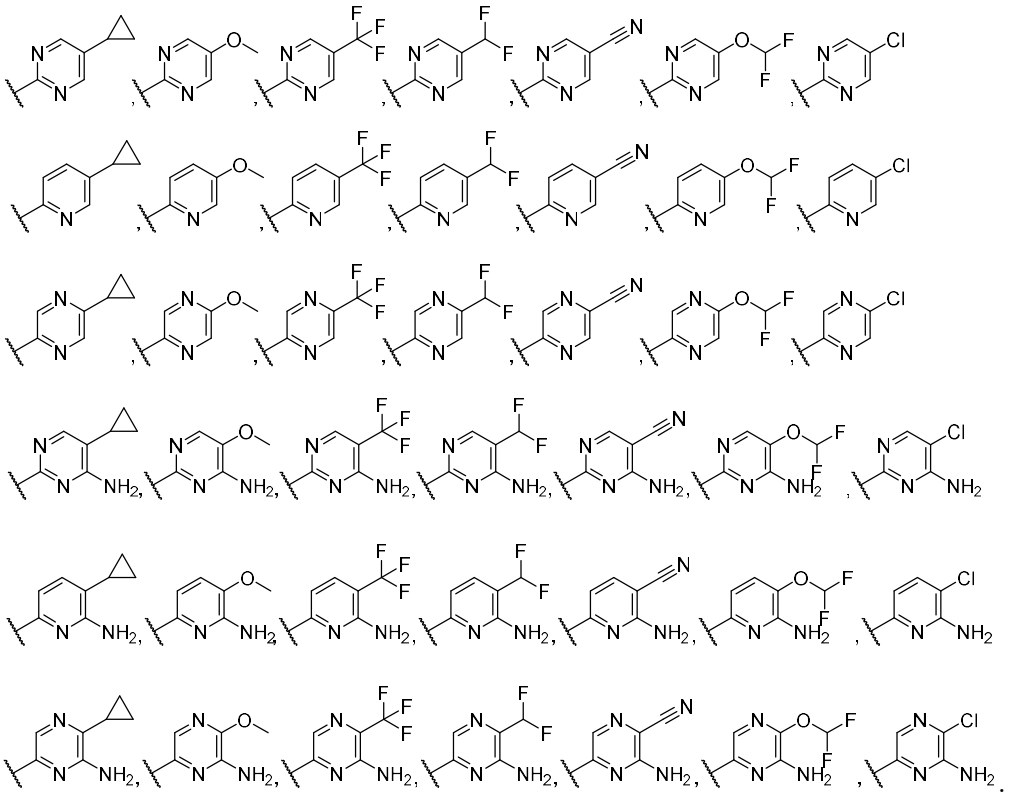
optionally wherein R^4 is methyl;

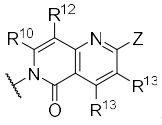
optionally wherein A is NH;

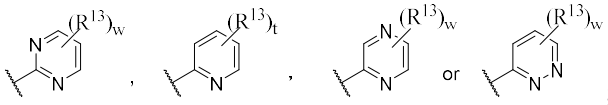
optionally wherein R^{5a}, $R^{5b,}$ R^{6a}, R^{6b}, R^{7a}, and R^{7b} are each H;

optionally wherein R^1 is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, and $C(O)$-R^{14}; optionally R^1 is CF_3;

optionally wherein Z is selected from:



11. The compound of claim 1 wherein J is: , or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or tautomer thereof; optionally wherein Z is selected from:

; wherein w is zero to three, inclusive; and t is zero to four, inclusive, and wherein R^{13} is bound to any substitutable position on Z; optionally wherein w is one to two, inclusive; and t is one to three, inclusive, wherein R^{13} is bound to any substitutable position on Z;

optionally wherein R^{13} is independently selected from the group consisting of: H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14}, $C(O)$-R^{16}, $C(O)$-$N(R^{17})(R^{18})$, $N(R^{17})(R^{18})$, $N(R^{17})C(O)$-R^{16}, $N(R^{17})C(O)O$-R^{14}, $(R^{17})S(O)_2(R^{16})$, -$N(R^{17})C(O)$-$N(R^{18})(R^{18})$, -SF_5, $S(O)_2R^{16}$, $S(O)_2N(R^{17})(R^{18})$, $S(O)(NH)R^{17}$, $S(O)(NR^{17})NR^{18}$, C_{1-9} alkyl, C_{2-9} alkenyl, and C_{2-9}

alkynyl, wherein any alkyl, alkenyl, alkynyl, or cycloalkyl is optionally substituted with one or more with R^{10};

optionally wherein R^{13} is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, $N(R^{17})(R^{18})$, CN, O-R^{14} and C(O)-R^{16};

optionally wherein R^2 is H;

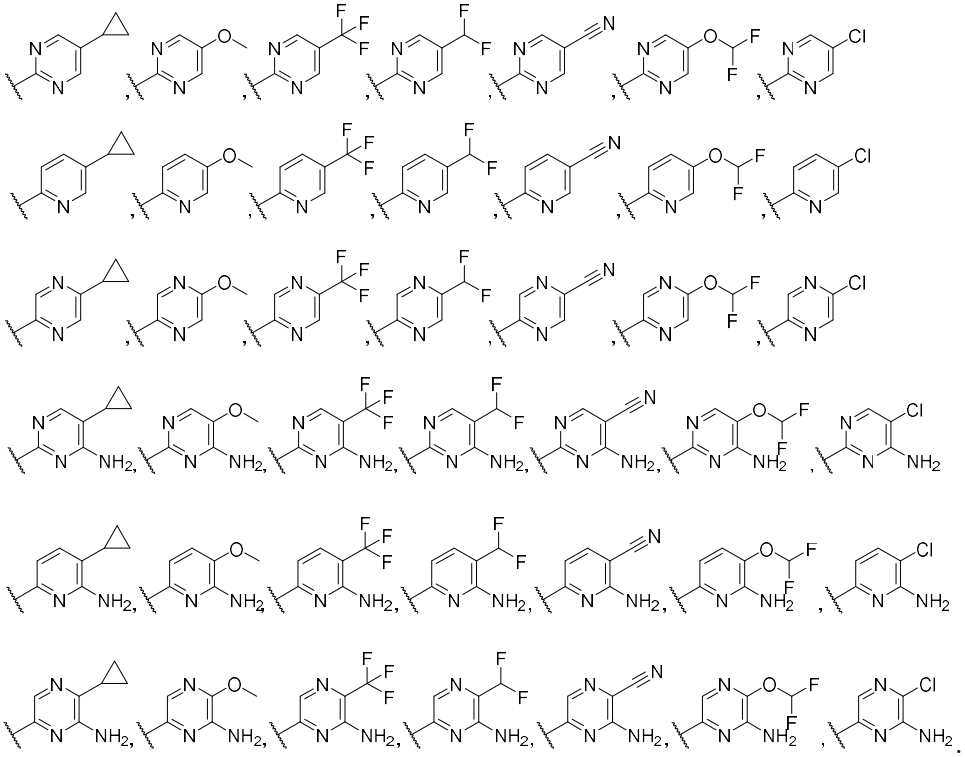
optionally wherein R^3 is H, and R^4 is $C_{1\text{-}9}$ alkyl or $C_{3\text{-}15}$ cycloalkyl, wherein any alkyl, or cycloalkyl is optionally substituted with one or more with R^{13};

optionally wherein R^4 is methyl or ethyl;

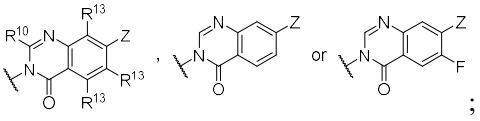
optionally wherein A is NH; optionally wherein R^{5a}, R^{5b}, R^{6a}, R^{6b}, R^{7a}, and R^{7b} are each H;

optionally wherein R^1 is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, and C(O)-R^{14}; optionally wherein R^1 is CF_3;

optionally wherein Z is:



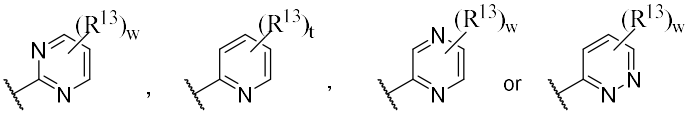
12. The compound of claim 1 or 6, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, wherein J is:



;

optionally wherein Z is a 5-10 membered heteroaryl optionally substituted with one or more R^{13};

optionally wherein Z is selected from:



; wherein w is zero to three, inclusive; and t is zero to four, inclusive, and wherein R^{13} is bound to any substitutable position on Z; optionally wherein w is one to two, inclusive; and t is one to three, inclusive, wherein R^{13} is bound to any substitutable position on Z;

optionally wherein R^{13} is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})S(O)$_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), -SF_5, S(O)$_2$$R^{16}$, S(O)$_2$N($R^{17}$)($R^{18}$), S(O)(NH)$R^{17}$, S(O)(N$R^{17}$)N$R^{18}$, C_{1-9} alkyl, C_{2-9} alkenyl, and C_{2-9} alkynyl, wherein any alkyl, alkenyl, alkynyl, or cycloalkyl is optionally substituted with one or more with R^{10};

optionally wherein R^{13} is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, N(R^{17})(R^{18}), CN, O-R^{14}, and C(O)-R^{16};

optionally wherein R^2 is H;

optionally wherein R^3 is H, and R^4 is C_{1-9} alkyl or C_{3-15} cycloalkyl, wherein any alkyl, or cycloalkyl is optionally substituted with one or more with R^{13};

optionally wherein R^4 is methyl or ethyl;

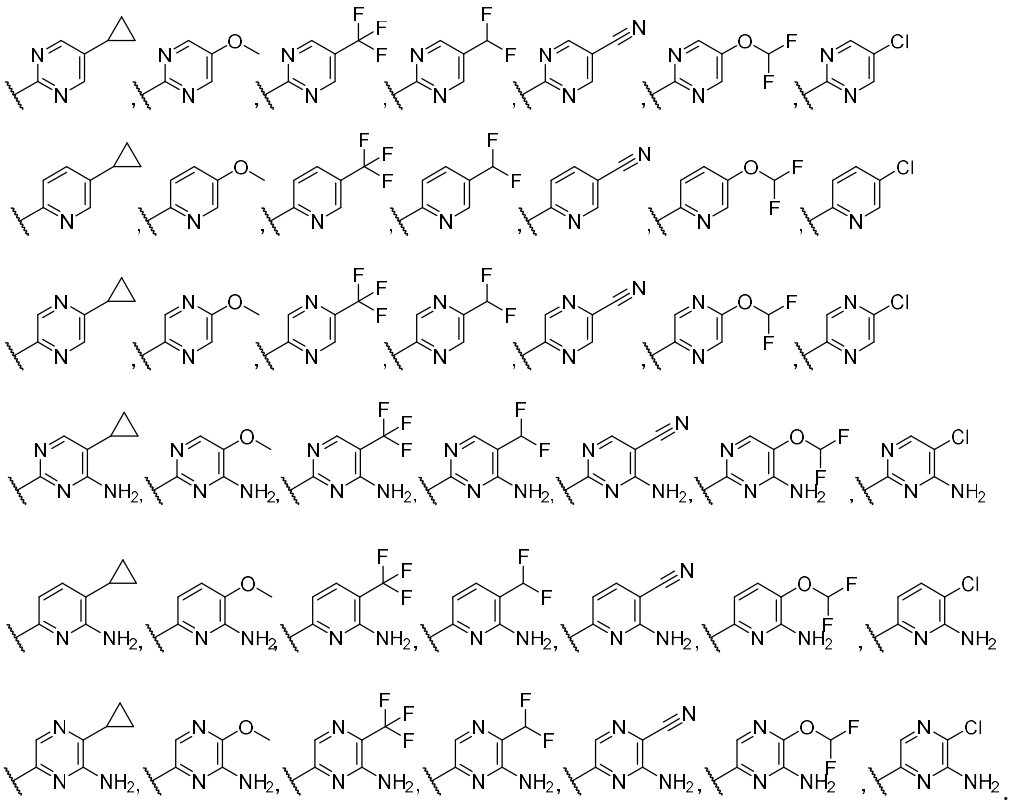
optionally wherein A is NH;

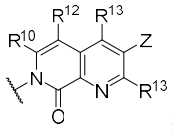
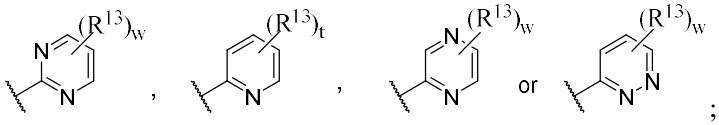
optionally wherein A is CH_2;

optionally wherein R^{5a}, R^{5b}, R^{6a}, R^{6b}, R^{7a}, and R^{7b} are each H;

optionally wherein R^1 is selected from the group consisting of: halo, CH_3 CH_2F, CHF_2, CF_3, and C(O)-R^{14};

optionally wherein R^1 is CF_3; optionally wherein Z is selected from:



13. The compound of claim 1 or 6, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, wherein J is:  ; optionally wherein Z is a 5-10 membered heteroaryl optionally substituted with one or more R^{13}; optionally wherein Z is selected from:  ; wherein w is zero to three, inclusive; and t is zero to four, inclusive, and wherein R^{13} is bound to any substitutable position on Z;

optionally wherein w is one to two, inclusive; and t is one to three, inclusive, wherein R^{13} is bound to any substitutable position on Z;

optionally wherein R^{13} is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})$S(O)_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), -SF_5, $S(O)_2R^{16}$, $S(O)_2N(R^{17})(R^{18})$, S(O)(NH)R^{17}, S(O)(NR^{17})NR^{18}, C_{1-9} alkyl, C_{2-9} alkenyl, and C_{2-9} alkynyl, wherein any alkyl, alkenyl, alkynyl, or cycloalkyl is optionally substituted with one or more with R^{10}; optionally wherein R^{13} is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, N(R^{17})(R^{18}), CN, O-R^{14} and C(O)-R^{16};

optionally wherein R^2 is H;

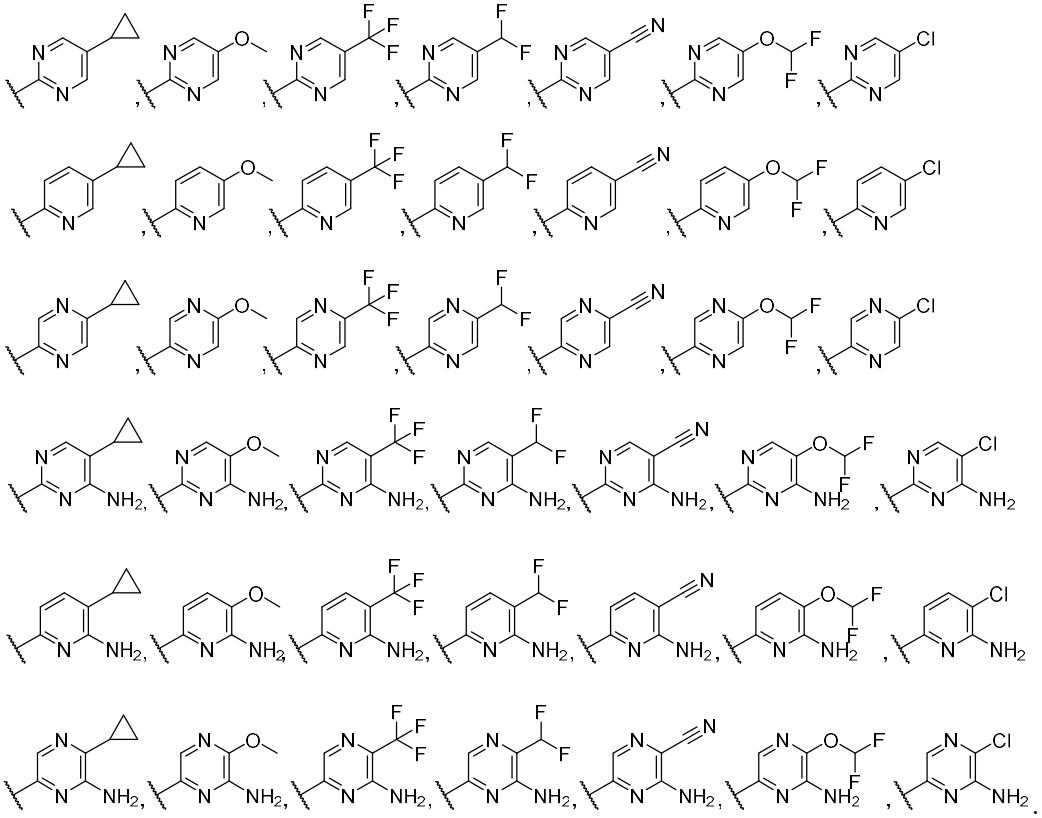
optionally wherein R^3 is H, and R^4 is C_{1-9} alkyl or C_{3-15} cycloalkyl, wherein any alkyl, or cycloalkyl is optionally substituted with one or more with R^{13};

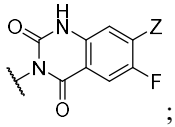
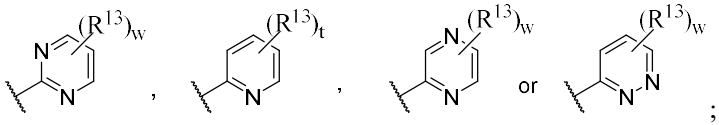
optionally wherein R^4 is methyl or ethyl;

optionally wherein A is NH; optionally wherein A is CH_2;

optionally wherein R^{5a}, $R^{5b,}$ R^{6a}, R^{6b}, R^{7a}, and R^{7b} are each H;

optionally wherein R^1 is selected from the group consisting of: halo, CH_3 CH_2F, CHF_2, CF_3, and C(O)-R^{14}; optionally wherein R^1 is CF_3; optionally wherein Z is selected from:



14. The compound of claim 1 or 6, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, wherein J is:  ; optionally wherein Z is a 5-10 membered heteroaryl optionally substituted with one or more R^{13}; optionally wherein Z is selected from:  ; wherein w is zero to three, inclusive; and t is zero to four, inclusive, and wherein R^{13} is bound to any substitutable position on Z;

optionally wherein w is one to two, inclusive; and t is one to three, inclusive, wherein R^{13} is bound to any substitutable position on Z;

optionally wherein R^{13} is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O-R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O-R^{14}, N(R^{17})S$(O)_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), -SF_5, S$(O)_2R^{16}$, S$(O)_2$N(R^{17})(R^{18}), S(O)(NH)R^{17}, S(O)(NR^{17})NR^{18}, C_{1-9} alkyl, C_{2-9} alkenyl, and C_{2-9} alkynyl, wherein any alkyl, alkenyl, alkynyl, or cycloalkyl is optionally substituted with one or more with R^{10}; optionally wherein R^{13} is selected from the group consisting of: halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, N(R^{17})(R^{18}), CN, O-R^{14} and C(O)-R^{16};

optionally wherein R^2 is H;

optionally wherein R^3 is H, and R^4 is C_{1-9} alkyl or C_{3-15} cycloalkyl, wherein any alkyl, or cycloalkyl is optionally substituted with one or more with R^{13};

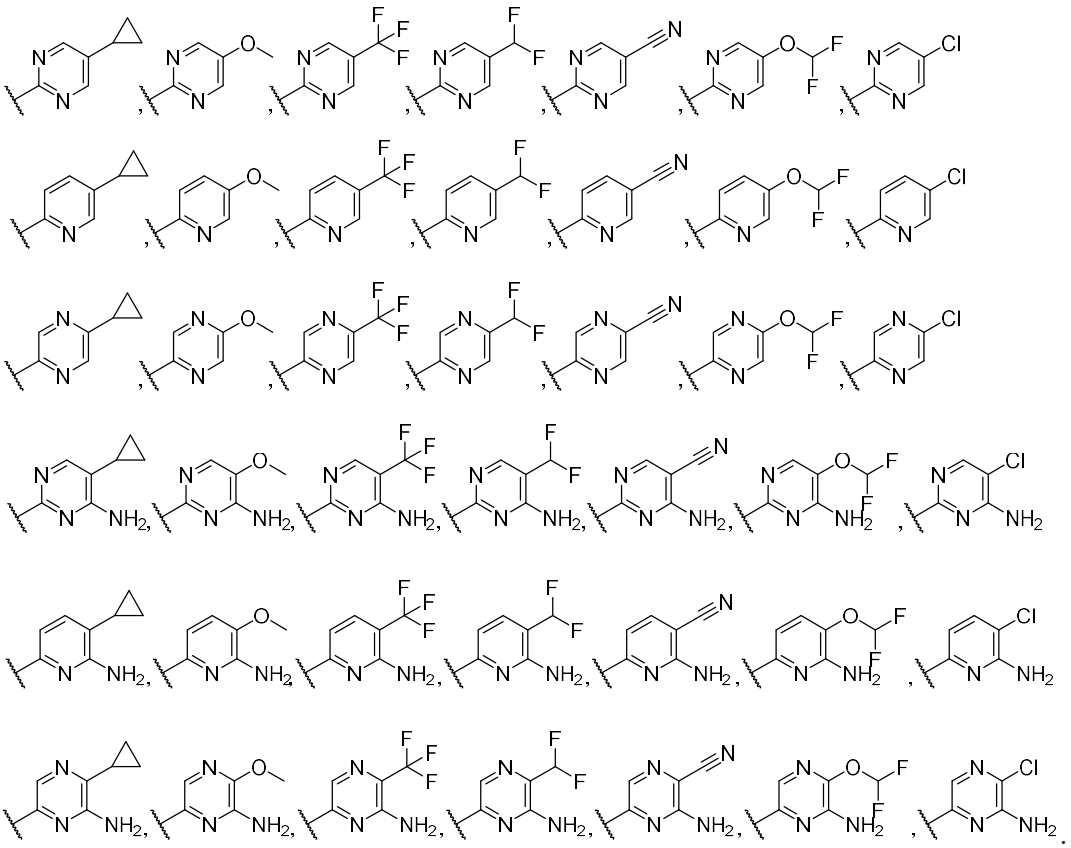
optionally wherein R^4 is methyl or ethyl;

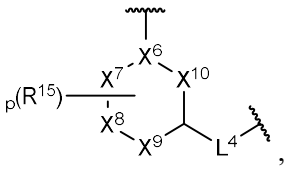
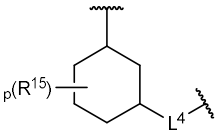
optionally wherein A is NH;

optionally wherein R^{5a}, R^{5b}, R^{6a}, R^{6b}, R^{7a}, and R^{7b} are each H;

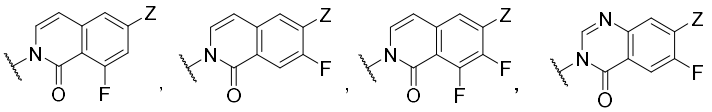
optionally wherein R^1 is selected from the group consisting of: halo, CH_3 CH_2F, CHF_2, CF_3, and C(O)-R^{14}; optionally wherein R^1 is CF_3;

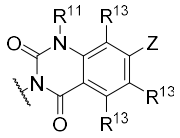
optionally wherein Z is selected from:

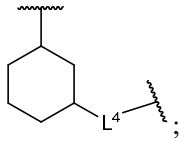


15. The compound of claim 1, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, wherein L^1 and L^3, together with the atoms to which they are attached, form a 6 membered cycloalkyl, or 6 membered heterocyclyl each optionally substituted with one or more with R^{15}; optionally wherein L^1 and L^3, together with the atoms to which they are attached, form a structure represented by: , wherein X^6, X^7, X^8, X^9 and X^{10} are independently CH_2, CHR^{15}, C=O, NR^{17}, S, SO, SO_2, or O, and wherein p is an integer from 0-10, inclusive; optionally wherein L^1 and L^3, together with the atoms to which they are attached, form a structure represented by: ; wherein p is an integer from 0-10, inclusive;

optionally wherein J is selected from the group consisting of:



and ;

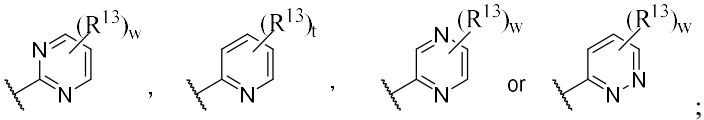
optionally wherein L^1 and L^3, together with the atoms to which they are attached, form a structure represented by: ;

optionally wherein A is NH;

optionally wherein R^1 is selected from the group consisting of halo, CH_3, H_2F, CHF_2, CF_3, and C(O)-R^{14}; optionally wherein R^1 is CF_3;

optionally wherein L^4 is C; optionally wherein R^{7a} and R^{7b} are each H;

optionally wherein Z is selected from

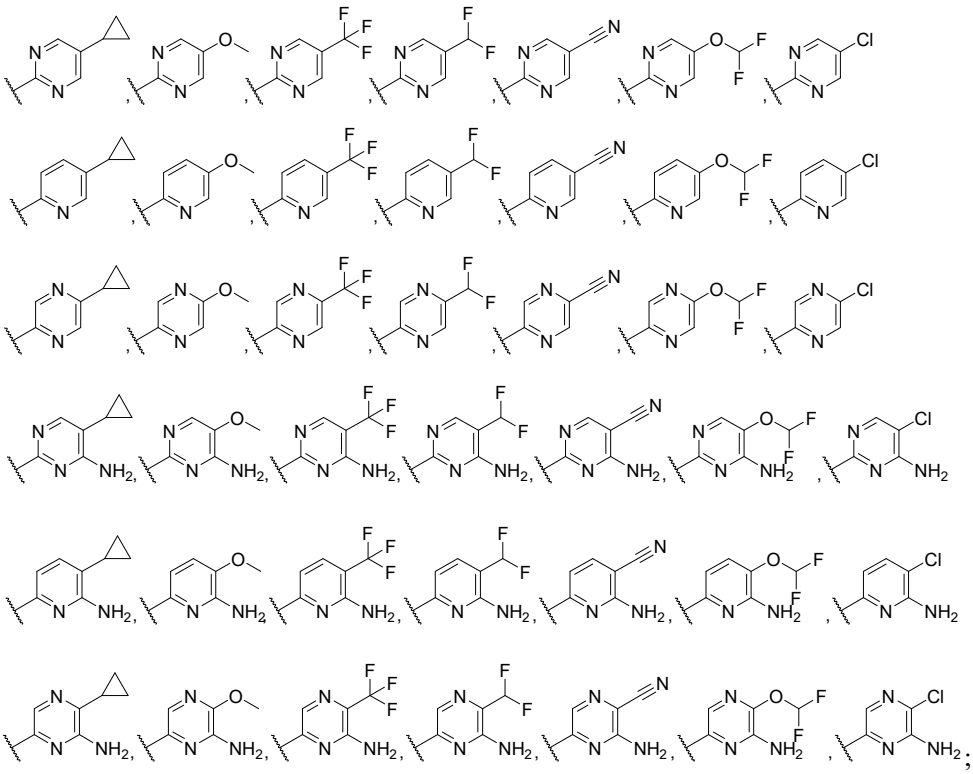


; wherein w is zero to three, inclusive;

and t is zero to four, inclusive, and wherein R^{13} is bound to any substitutable position on Z;

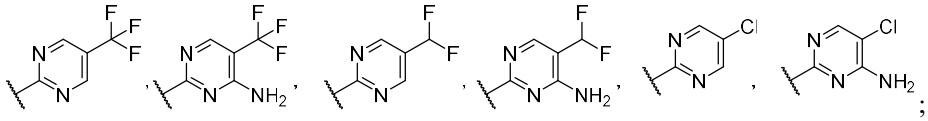
optionally wherein w is one to two, inclusive; and t is one to three, inclusive;

optionally wherein Z is selected from:



optionally wherein R^{13} is independently selected from the group consisting of: H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O- R^{14}, N(R^{17})S(O)$_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), -SF_5, S(O)$_2$$R^{16}$, S(O)$_2$N($R^{17}$)($R^{18}$), S(O)(NH)$R^{17}$, S(O)(N$R^{17}$)N$R^{18}$, C_{1-9} alkyl, C_{2-9} alkenyl, and C_{2-9} alkynyl, wherein

any alkyl, alkenyl, or alkynyl is optionally substituted with one or more with R^{13}; optionally wherein R^{13} is independently selected from the group consisting of: H, halo, NH_2, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, $OCHF_2$, OCF_3, CN, O-R^{14}, and C(O)-R^{16}; optionally wherein Z is selected from:



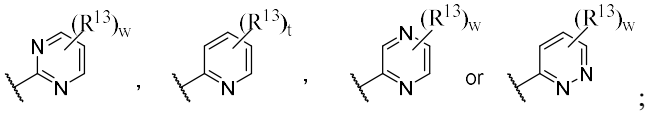
optionally wherein R^{7a} and R^{7b} are each CH_3; optionally wherein R^{7a} is CH_3 and R^{7b} is H;

optionally wherein A is O;

optionally wherein R^1 is selected from the group consisting of halo, CH_3, CH_2F, CHF_2, CF_3, and C(O)-R^{14}; optionally wherein R^1 is CF_3;

optionally wherein L^4 is C;

optionally wherein R^{7a} and R^{7b} are each H;

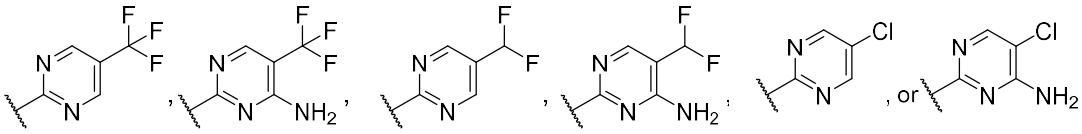
optionally wherein Z is selected from: ;

wherein w is zero to three, inclusive; and t is zero to four, inclusive, and wherein R^{13} is bound to any substitutable position on Z;

optionally wherein w is one to two, inclusive; and t is one to three, inclusive;

optionally wherein R^{13} is independently selected from the group consisting of: H, halo, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, OCF_3, $OCHF_2$, NO_2, CN, O- R^{14}, C(O)-R^{16}, C(O)-N(R^{17})(R^{18}), N(R^{17})(R^{18}), N(R^{17})C(O)-R^{16}, N(R^{17})C(O)O- R^{14}, N(R^{17})S(O)$_2$(R^{16}), -N(R^{17})C(O)-N(R^{18})(R^{18}), -SF_5, S(O)$_2$$R^{16}$, S(O)$_2$N($R^{17}$)($R^{18}$), S(O)(NH)$R^{17}$, S(O)(N$R^{17}$)N$R^{18}$, C_{1-9} alkyl, C_{2-9} alkenyl, and C_{2-9} alkynyl, wherein any alkyl, alkenyl, or alkynyl is optionally substituted with one or more with R^{13};

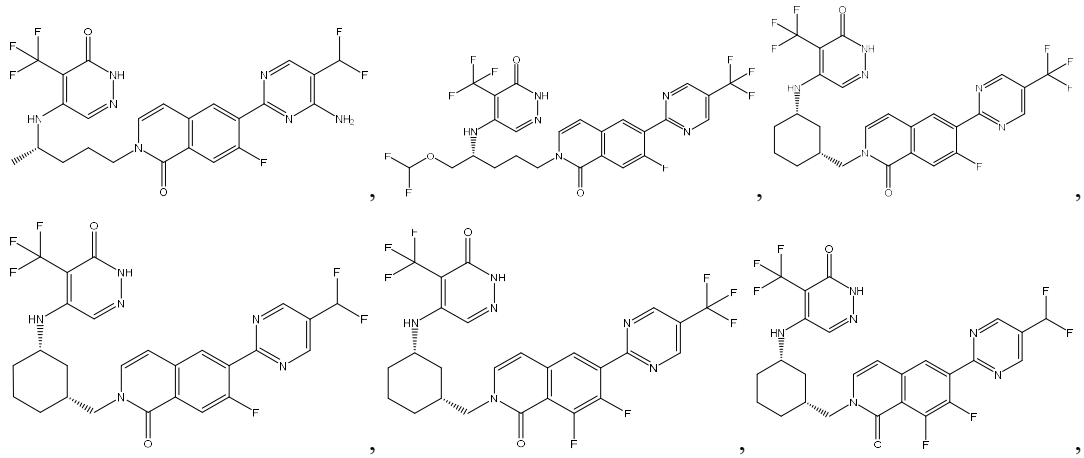
optionally wherein R^{13} is independently selected from the group consisting of: H, halo, NH_2, CH_3, CH_2F, CHF_2, CF_3, CH_2CF_3, OCH_3, $OCHF_2$, OCF_3, CN, O-R^{14}, and C(O)-R^{16}; optionally wherein Z is:

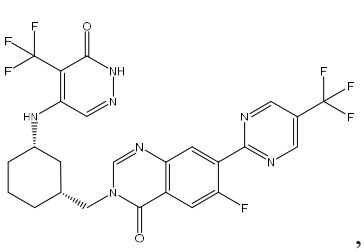
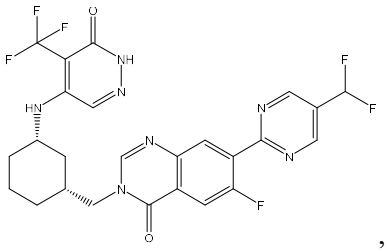
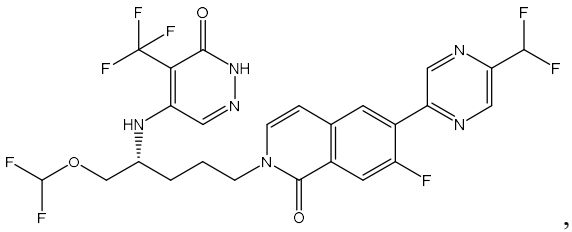
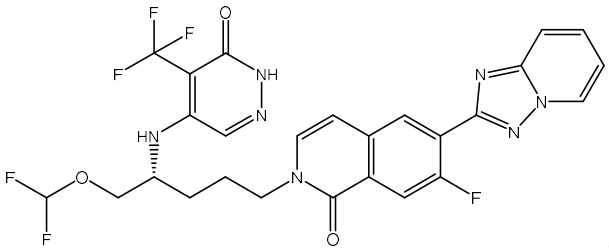
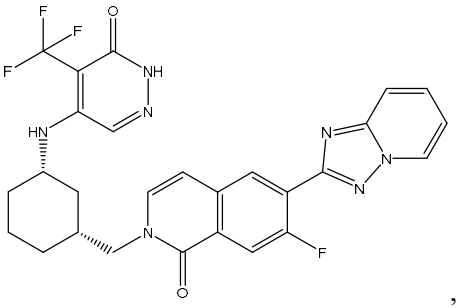
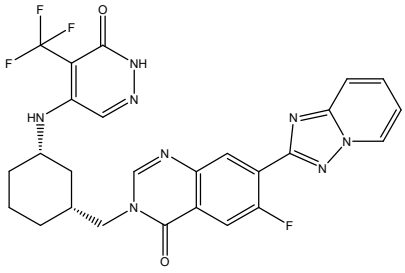
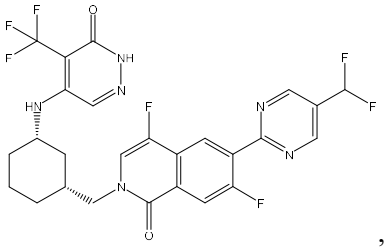
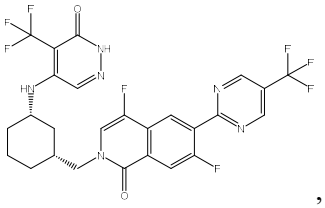
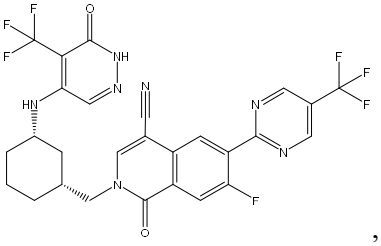
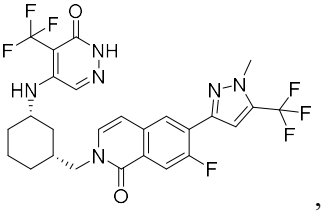
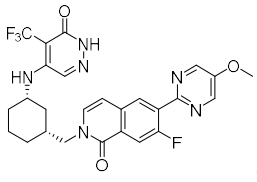
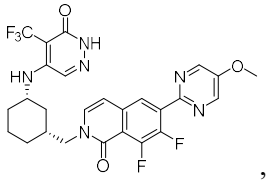
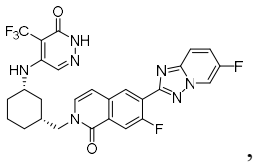


;

optionally wherein R^{7a} and R^{7b} are each CH_3.

16. A compound, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, selected from the group consisting of:

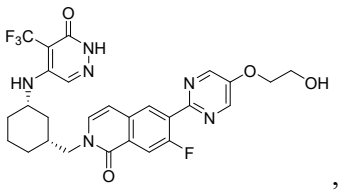
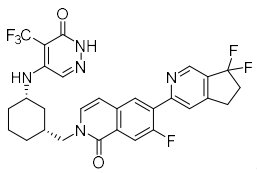
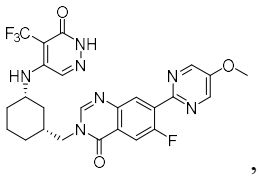
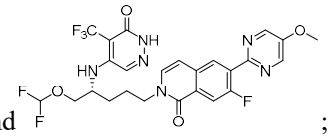


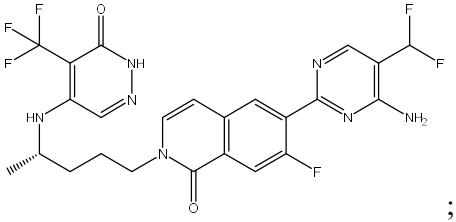

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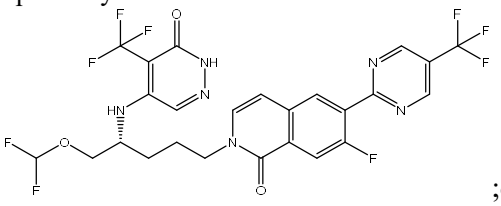
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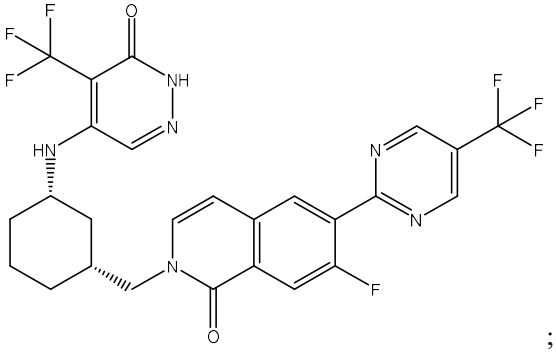
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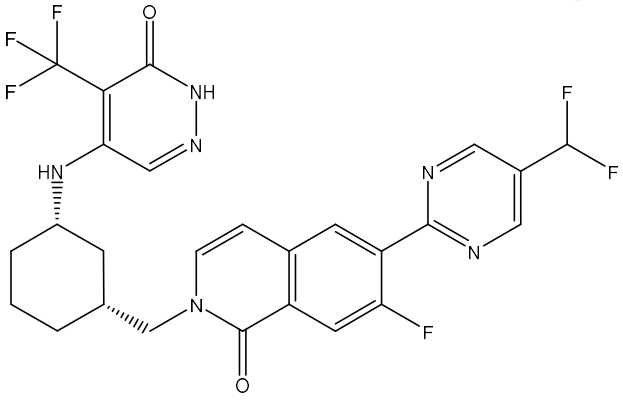
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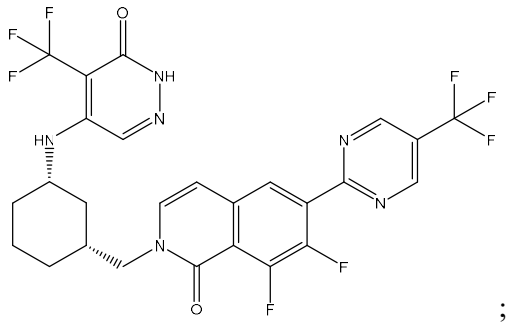

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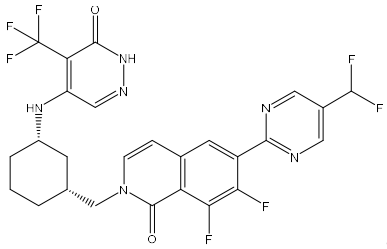

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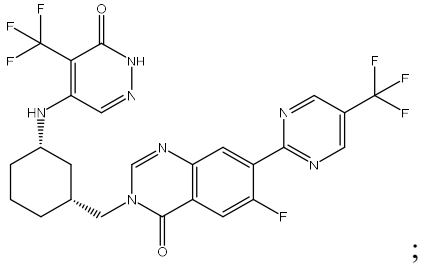

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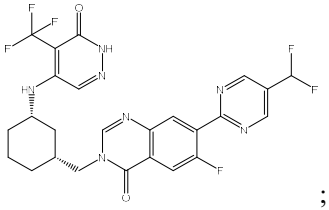
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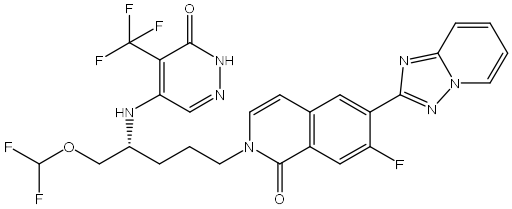
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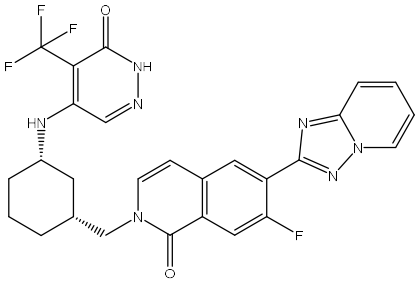
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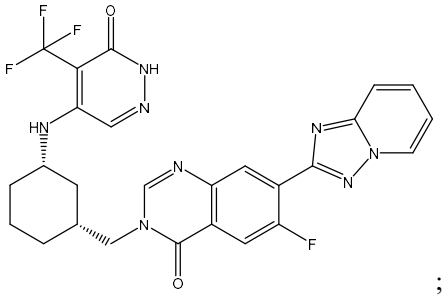
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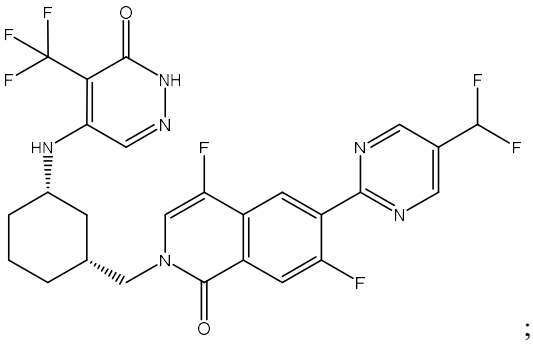
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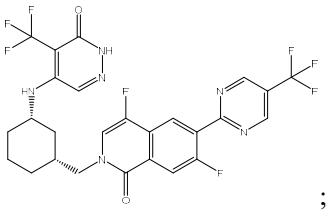


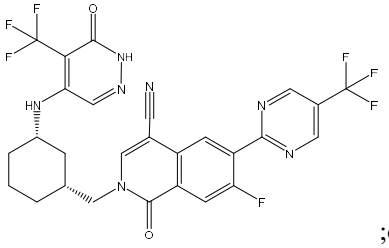
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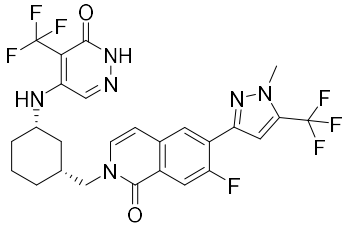
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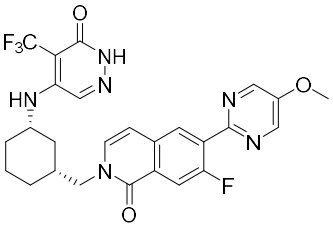


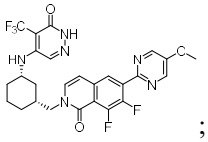
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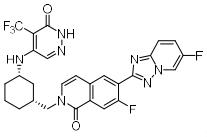


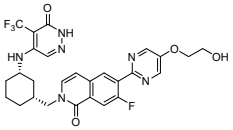
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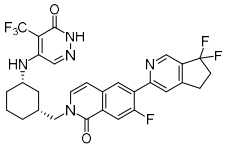


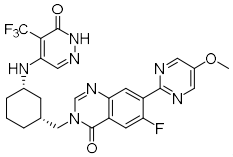
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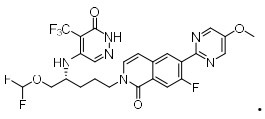


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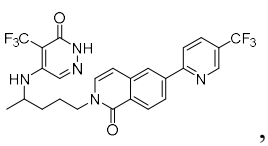
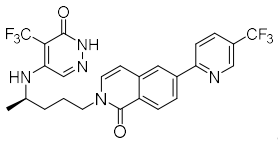
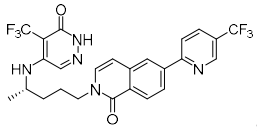
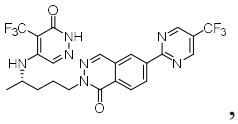
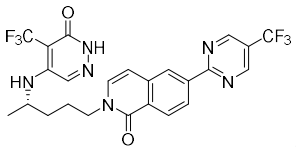
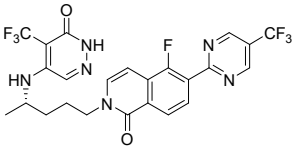
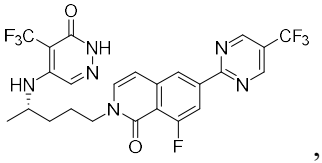
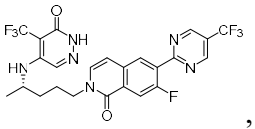
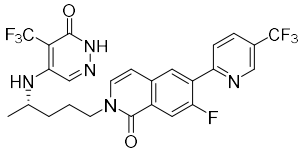
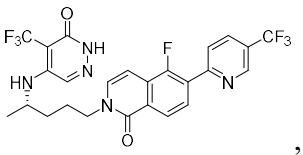
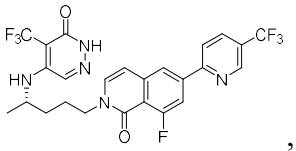
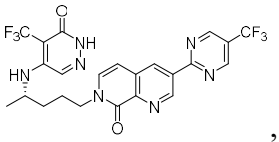
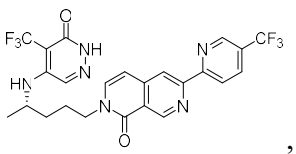
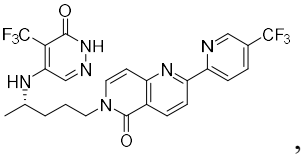
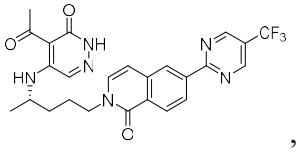
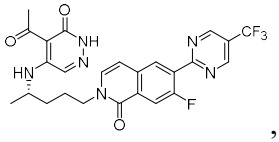
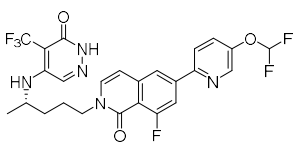
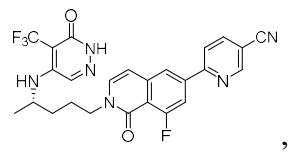
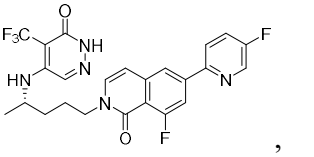
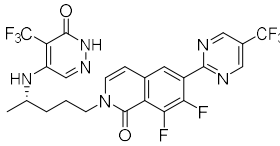


; optionally which is:  ;optionally which is:



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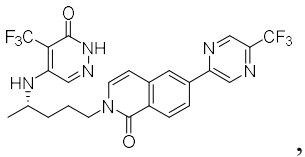
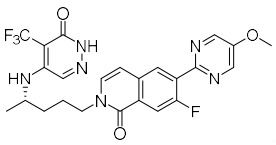
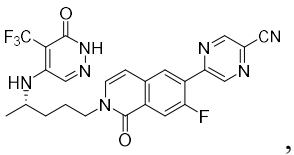
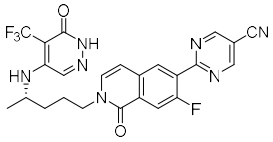
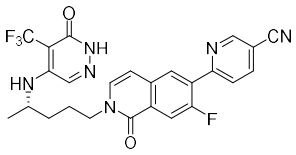
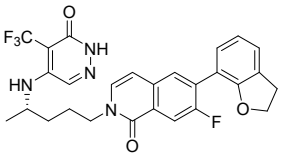
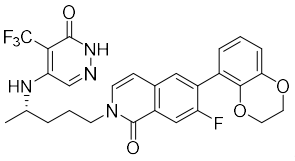
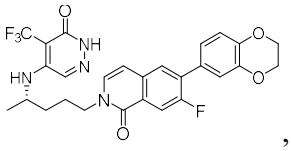
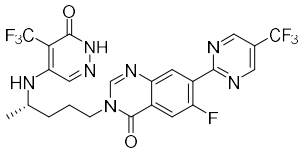
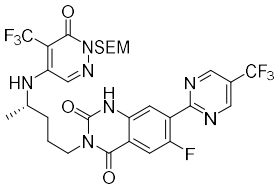
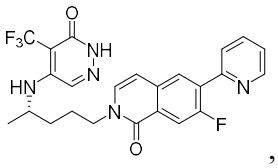
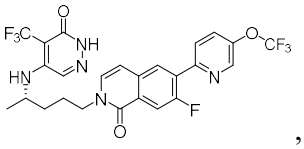
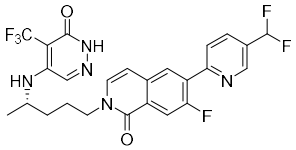
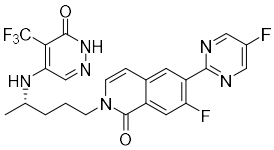
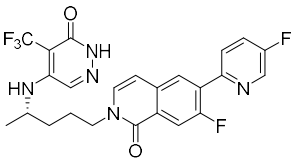
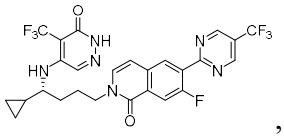
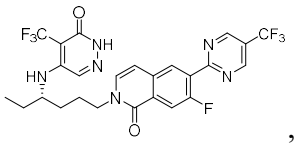
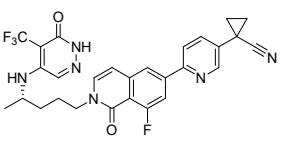
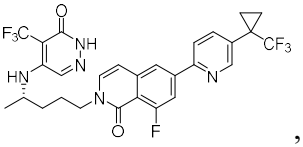
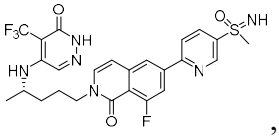

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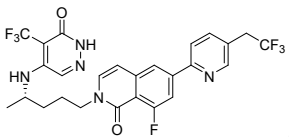
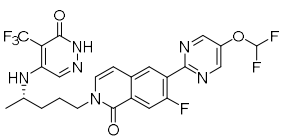
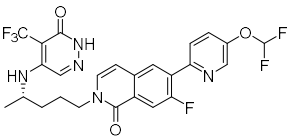
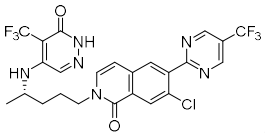
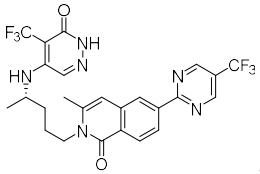
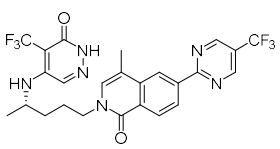
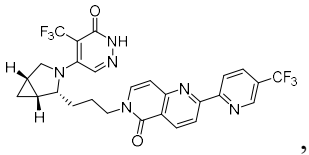
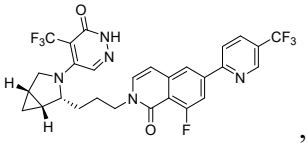
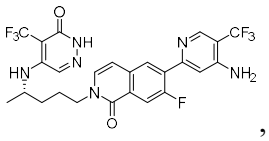
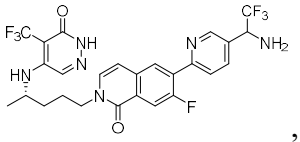
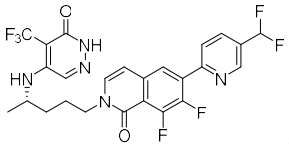
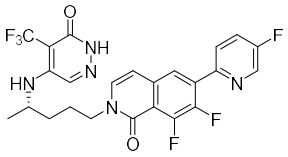
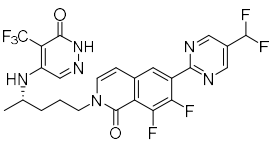
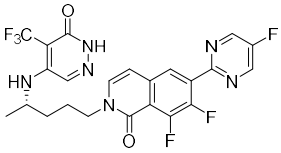
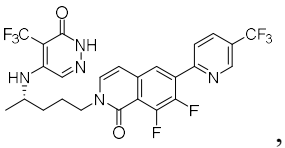
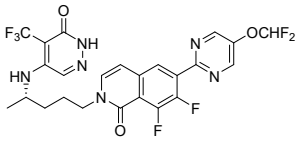
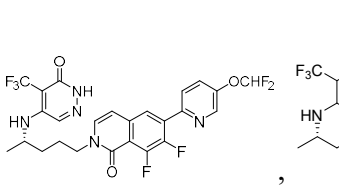
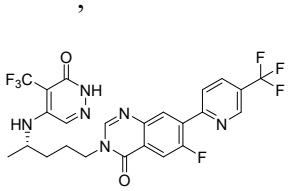
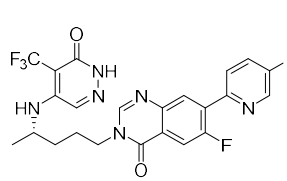
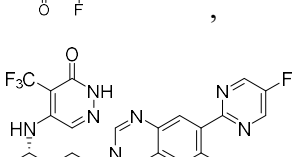
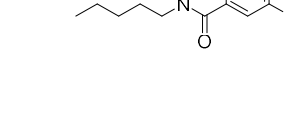
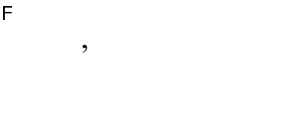
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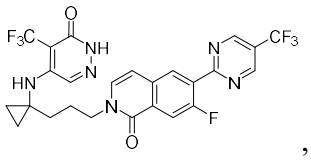
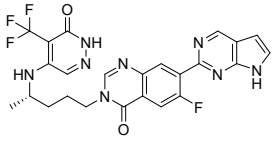
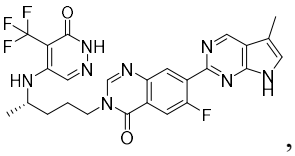
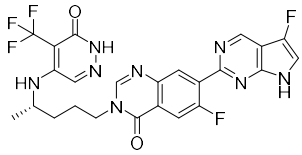
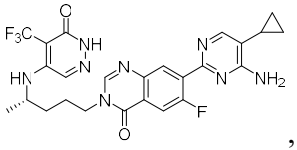
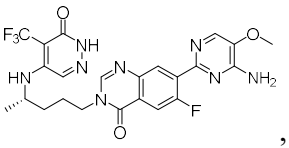
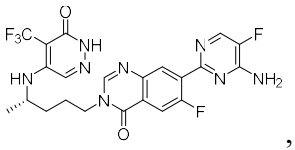
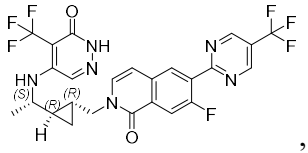
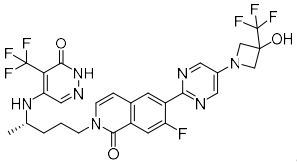
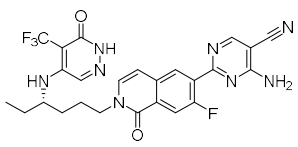
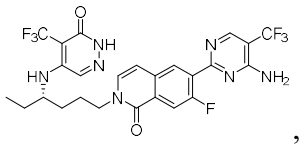
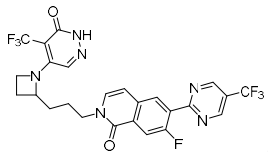
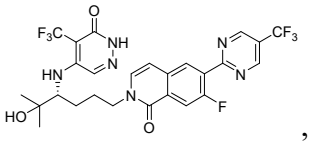
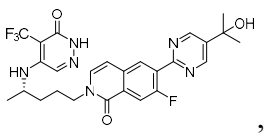
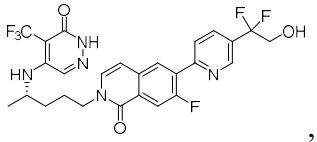
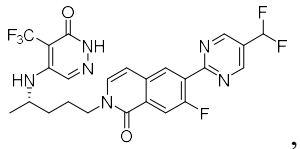
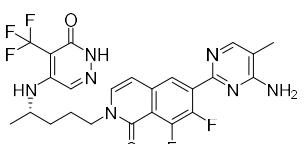
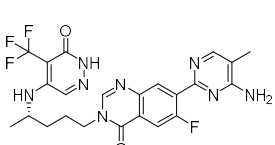
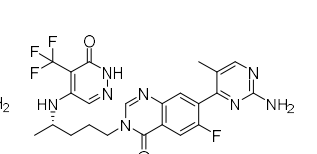
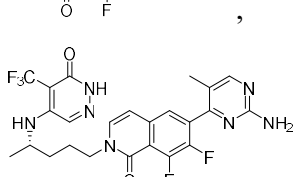
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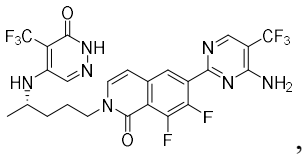
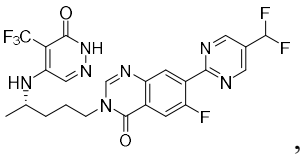
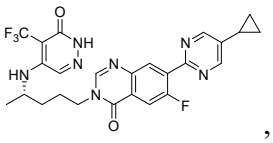
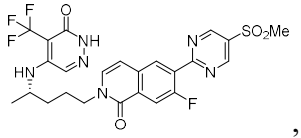
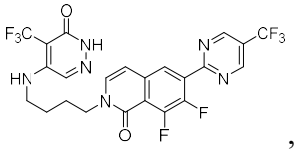
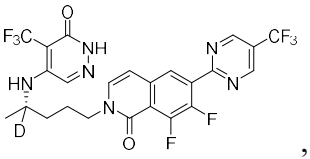
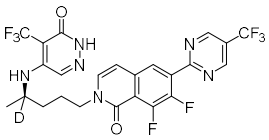
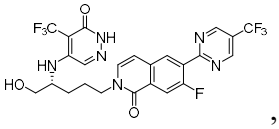
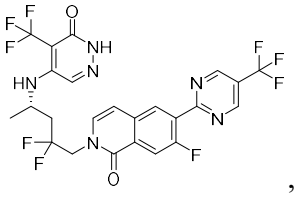
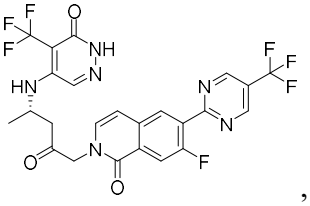
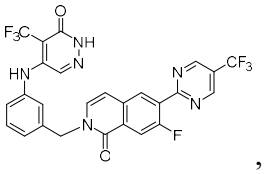
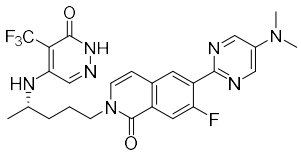
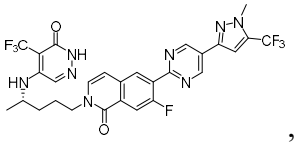
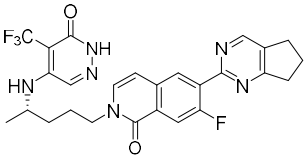
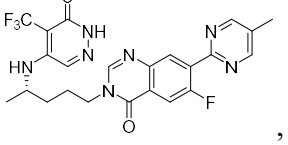
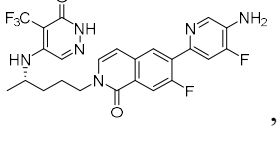
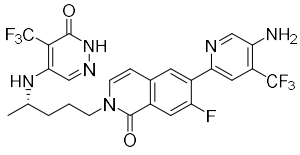
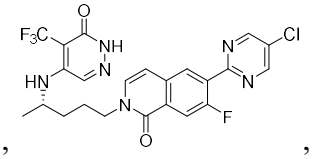
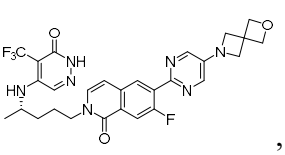
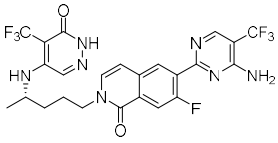

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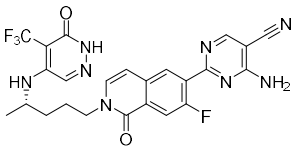
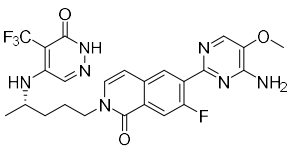
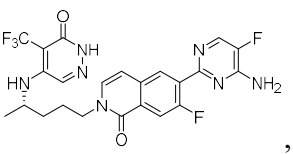
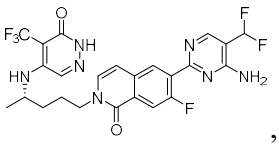
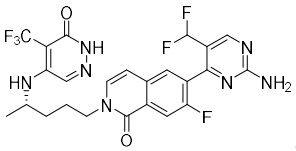
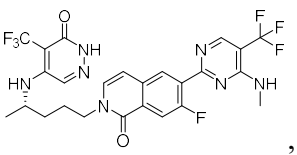
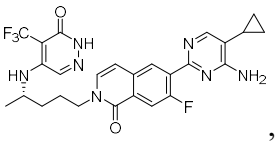
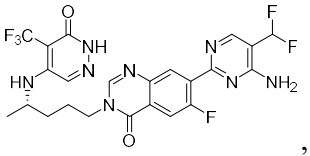
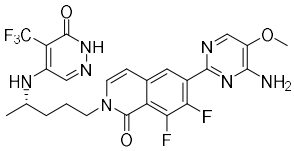
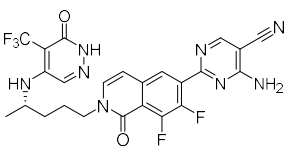
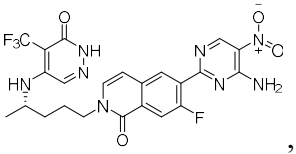
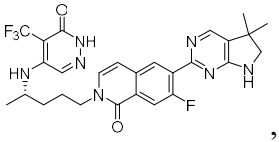
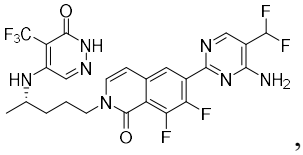
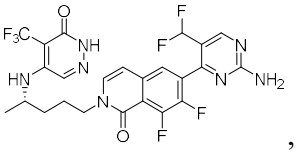
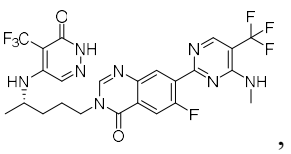
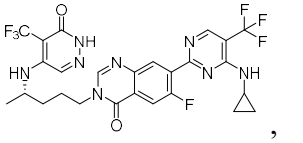
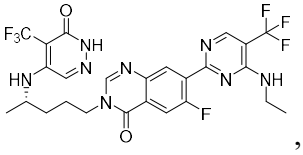
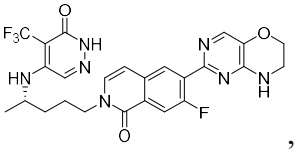
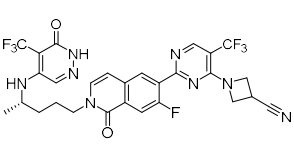
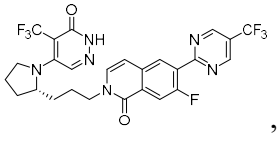

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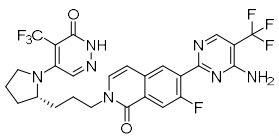
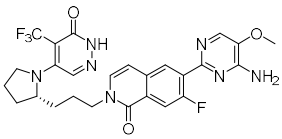
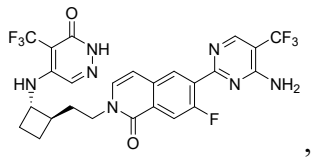
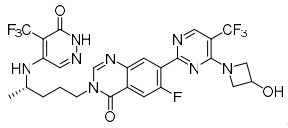
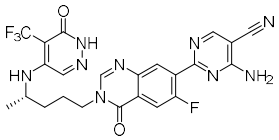
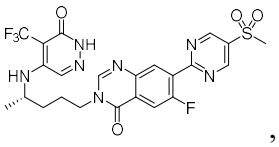
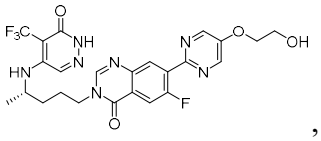
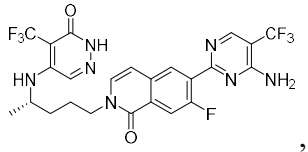
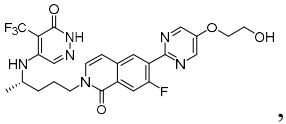
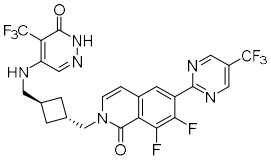
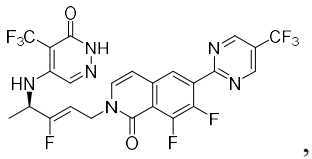
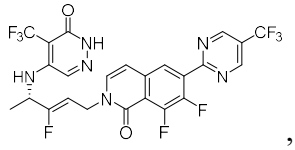
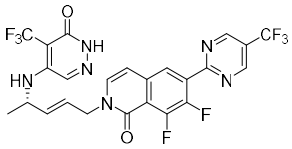
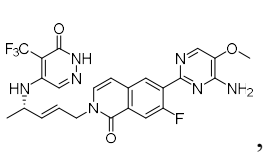
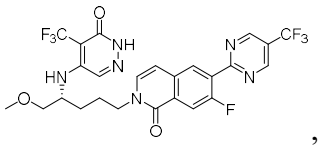
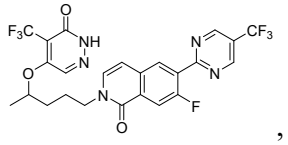
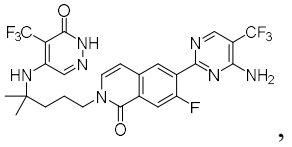
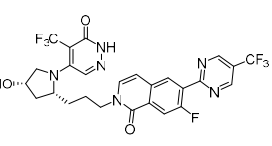
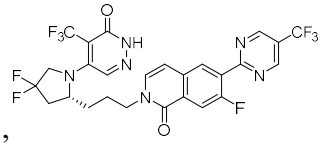
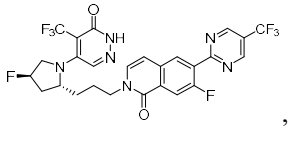

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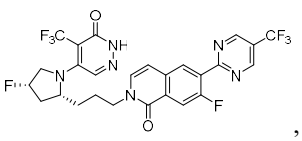
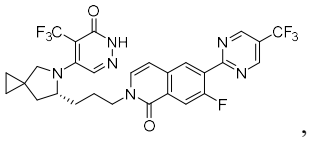
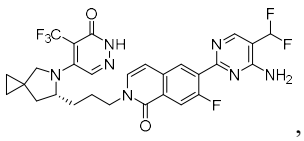
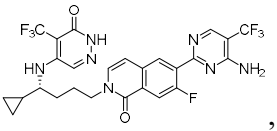
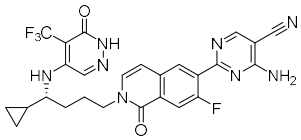
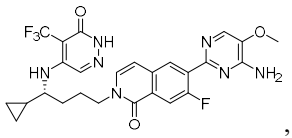
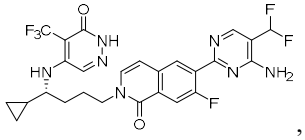
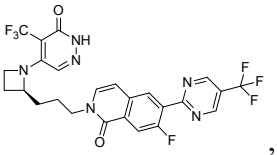
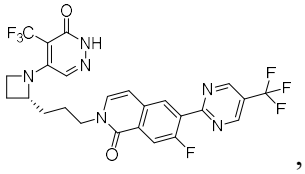
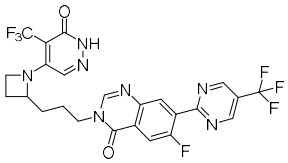
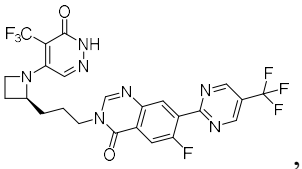
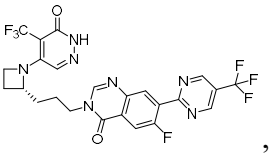
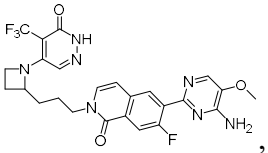
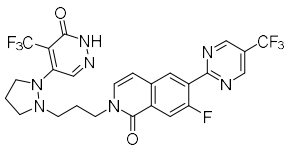
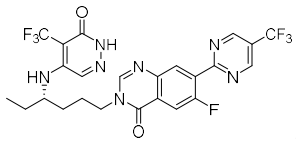
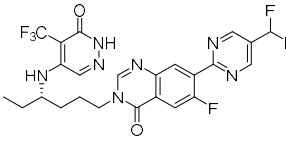
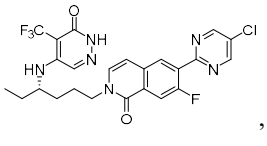
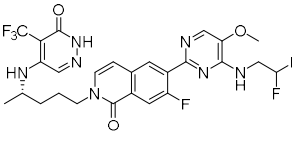
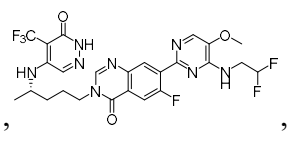
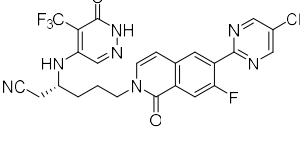

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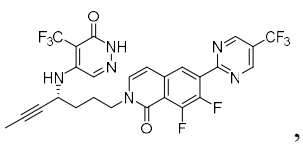
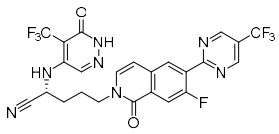
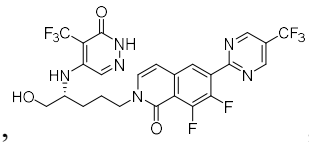
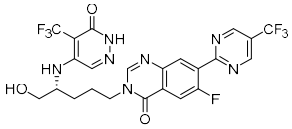
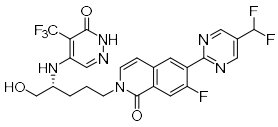
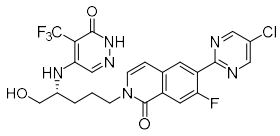
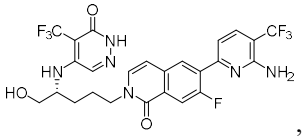
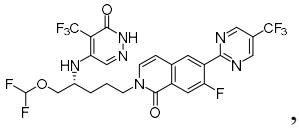
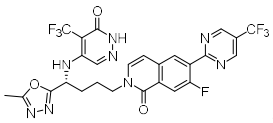
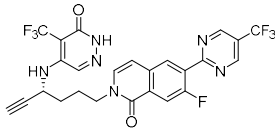
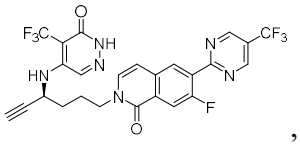
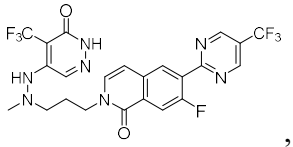
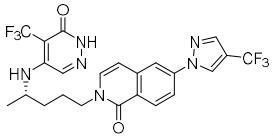
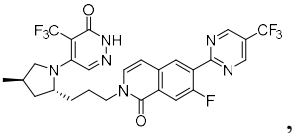
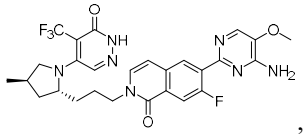
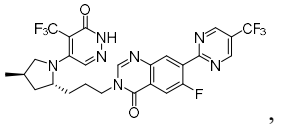
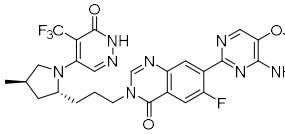
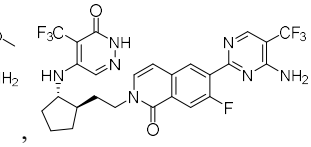
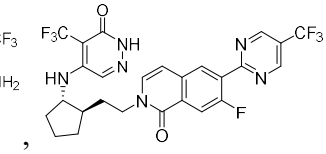
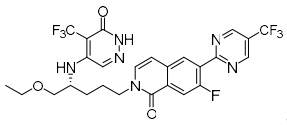

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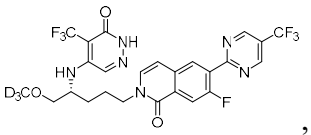
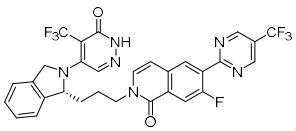
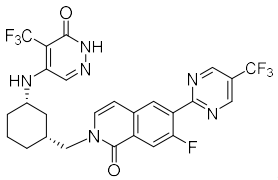
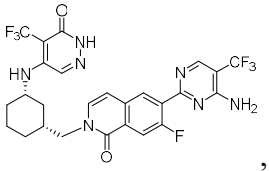
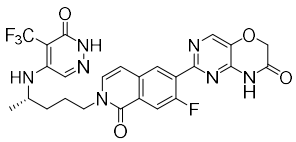
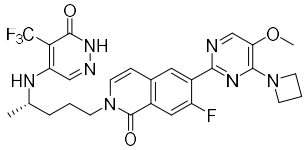
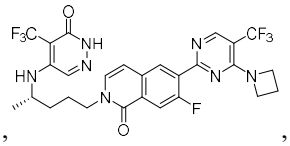
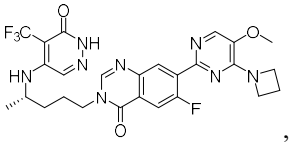
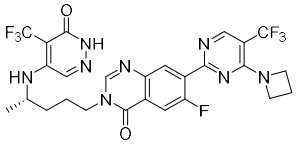
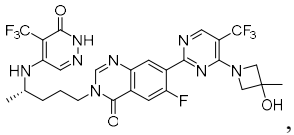
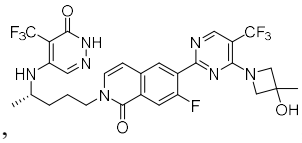
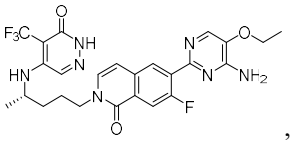
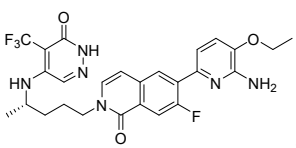
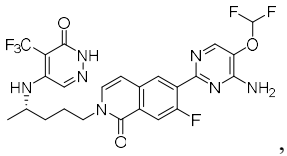
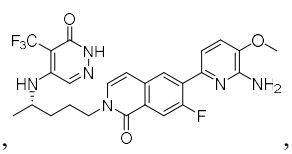
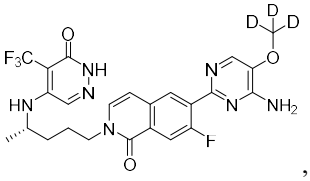
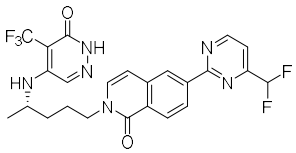
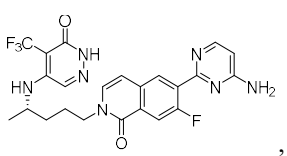
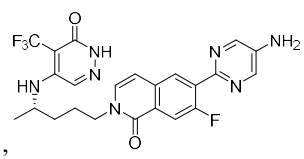
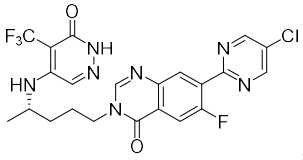

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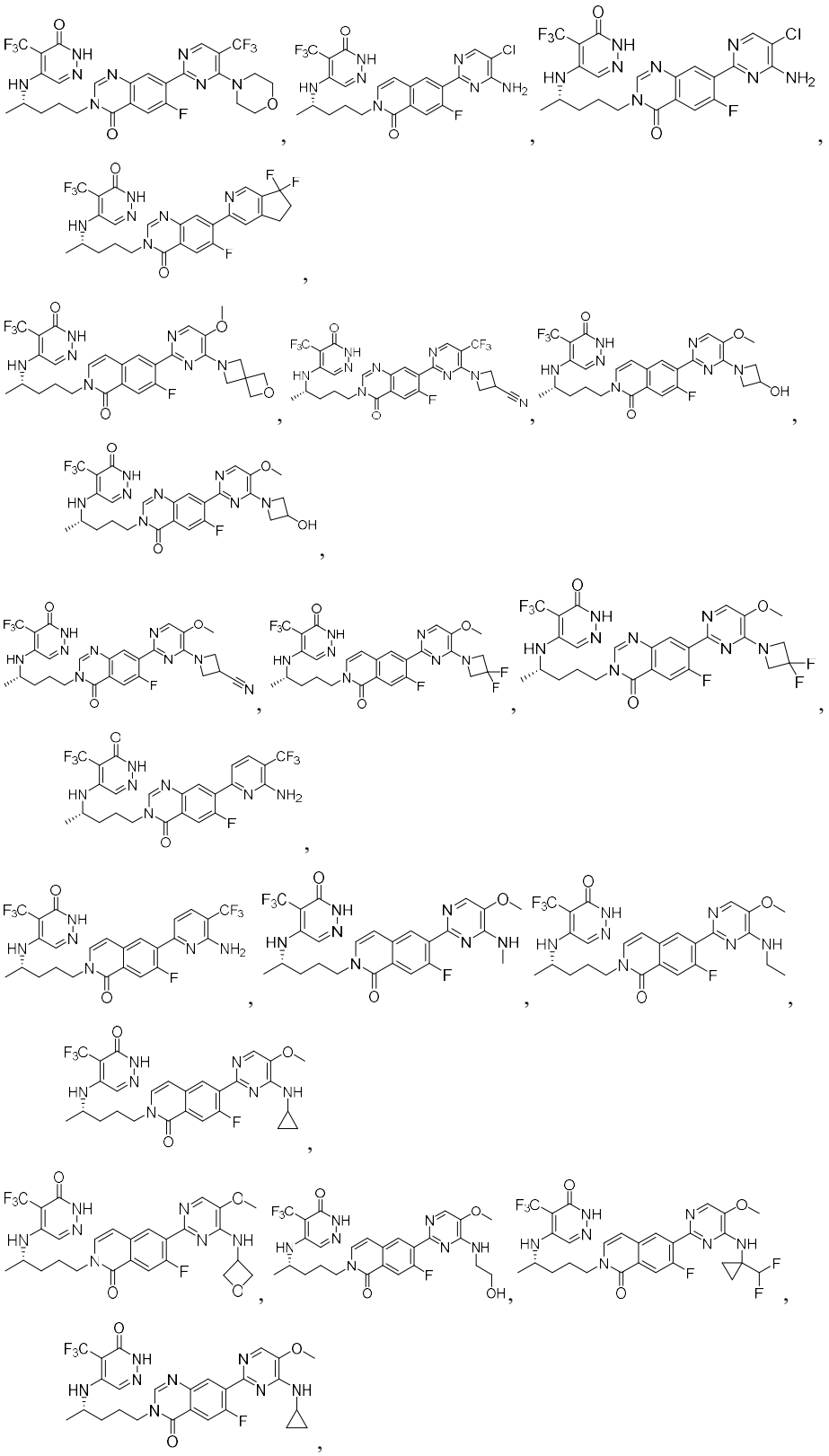
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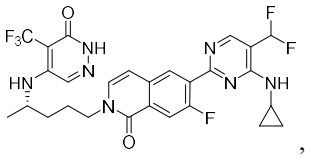
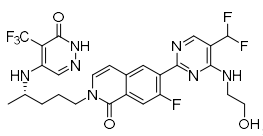
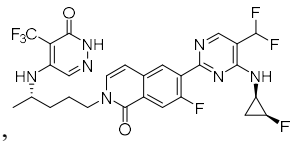
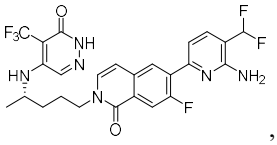
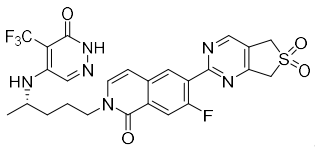
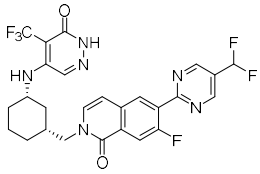
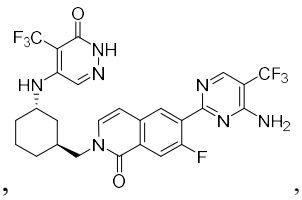
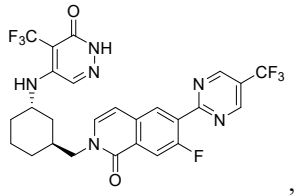
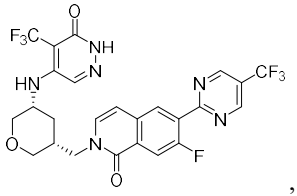
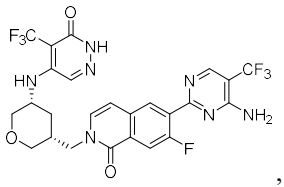
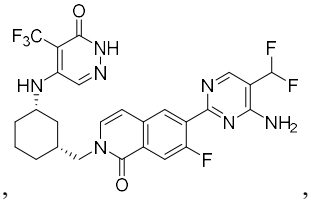
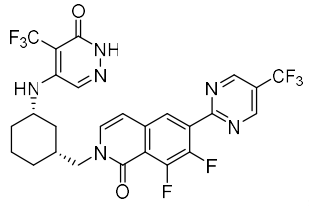
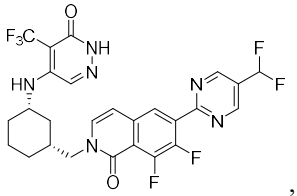
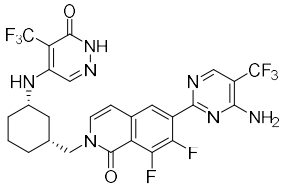
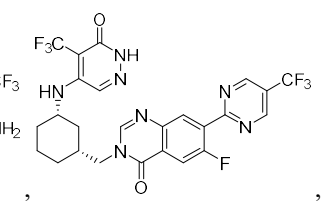
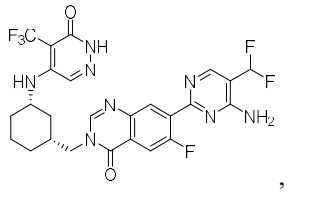
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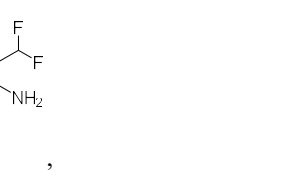
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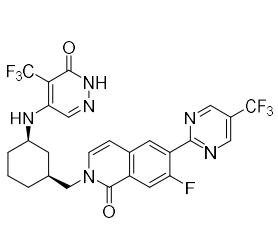
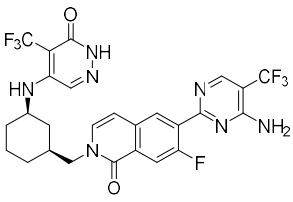
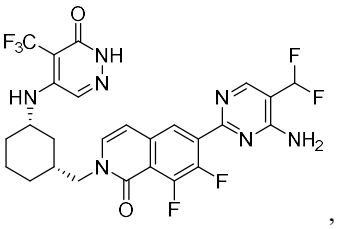
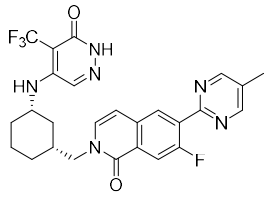
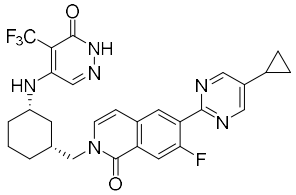
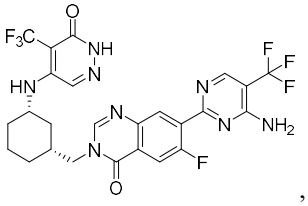
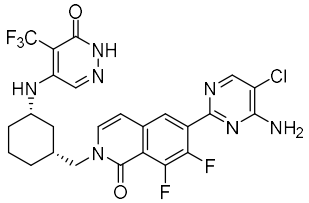
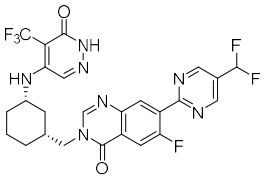
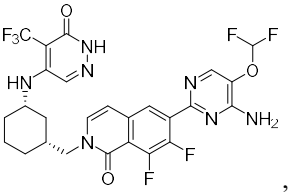
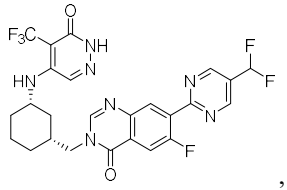
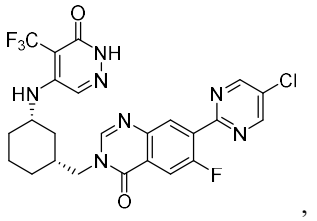
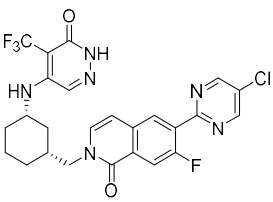
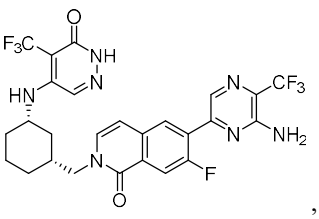
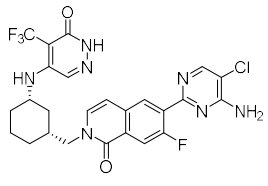



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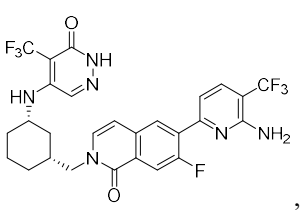
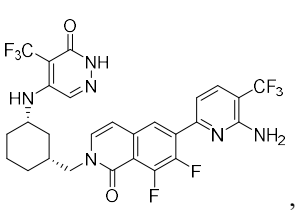
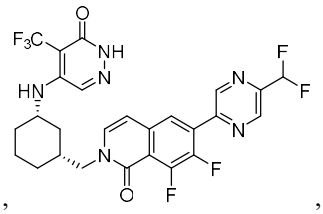
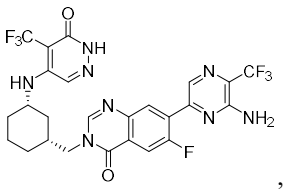
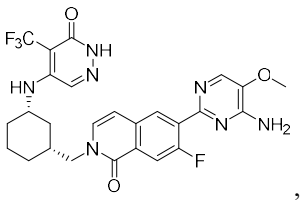
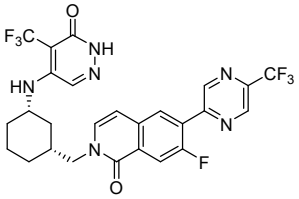
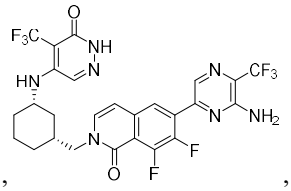
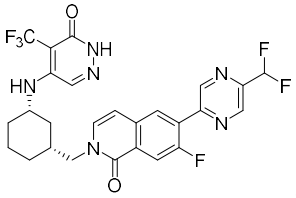
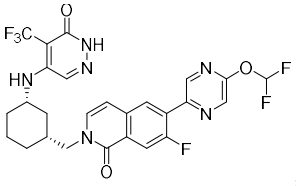
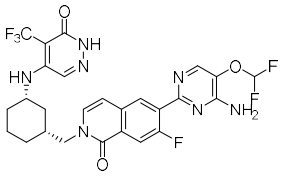
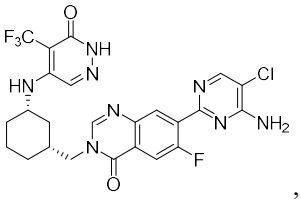
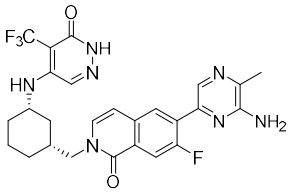
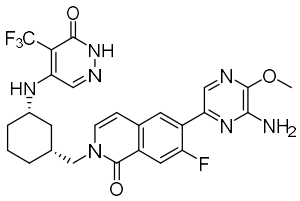
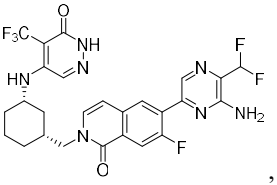
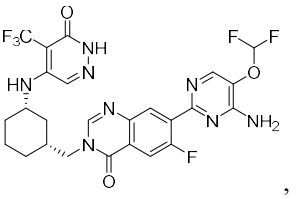
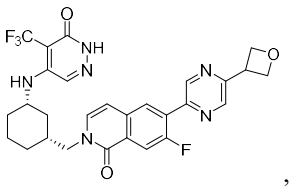

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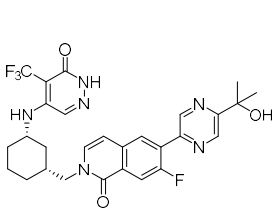
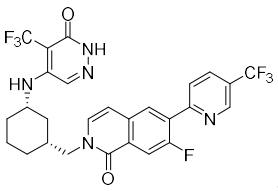
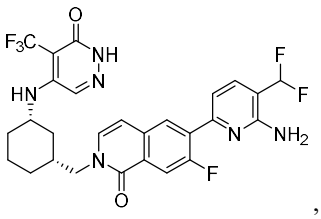
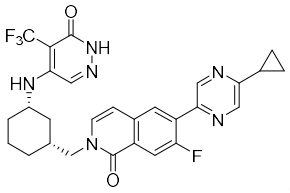
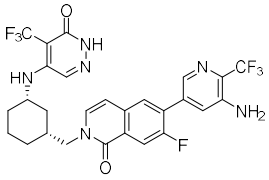
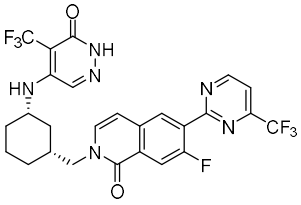
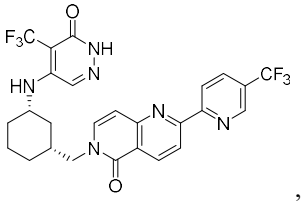
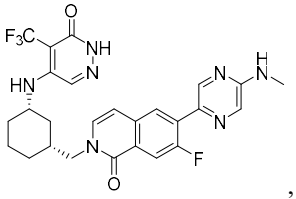
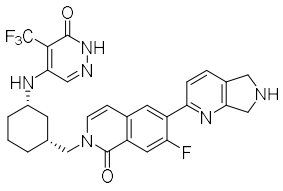
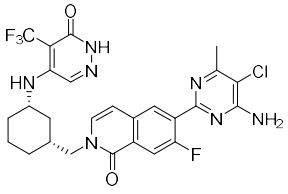
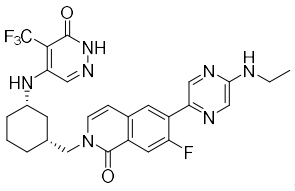
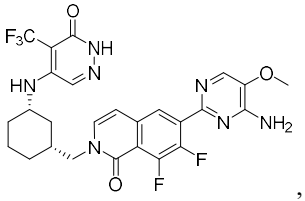
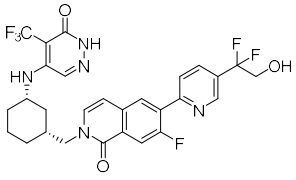
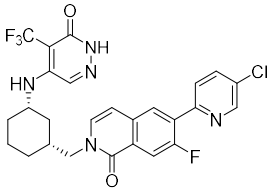
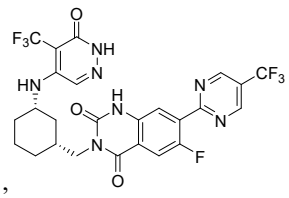
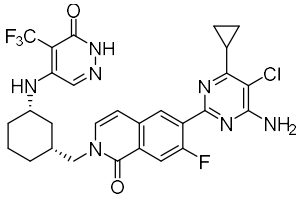
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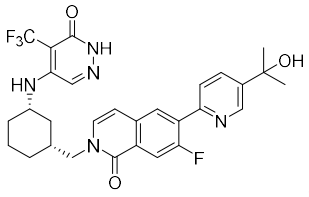
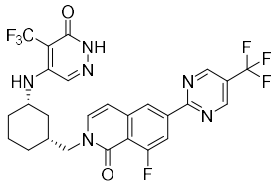
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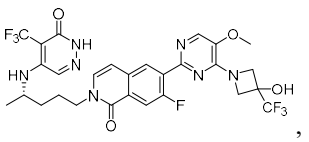
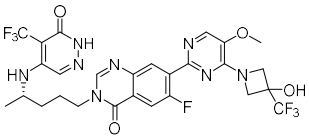
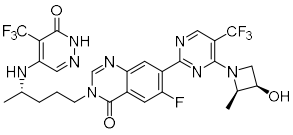
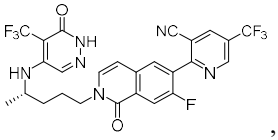
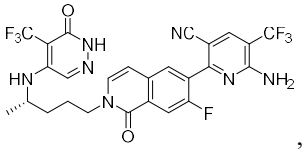
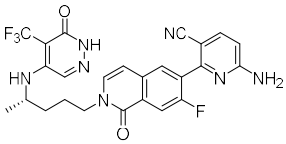
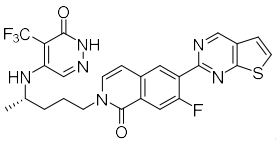
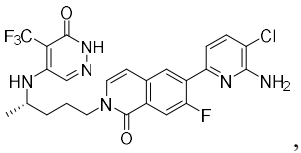
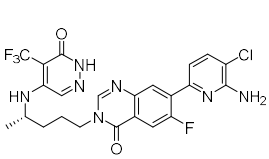
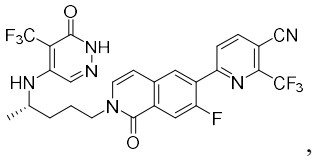
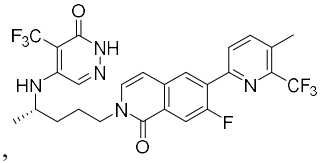
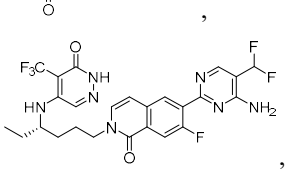
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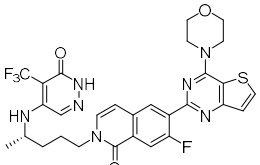
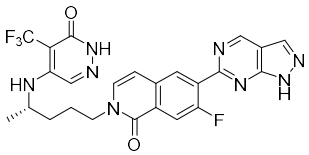
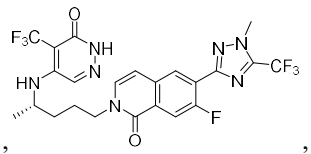
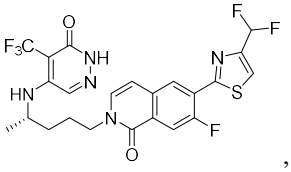

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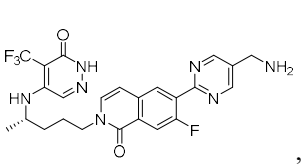
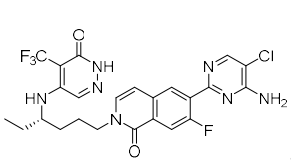
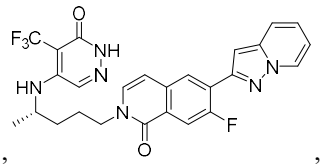
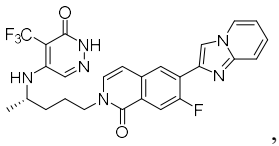
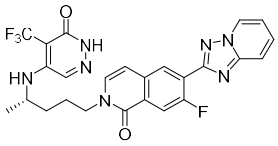
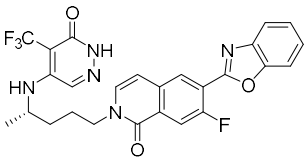
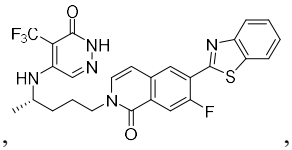
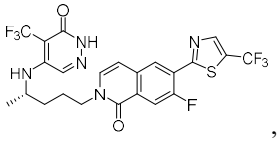
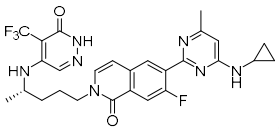
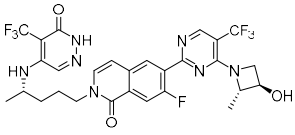
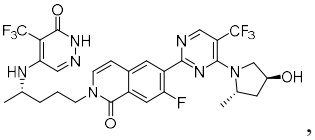
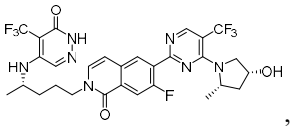
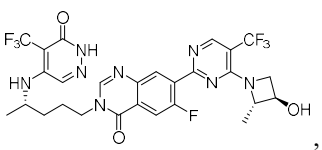
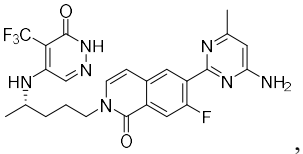
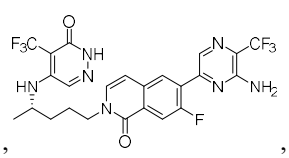
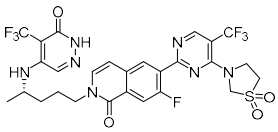
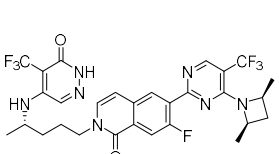
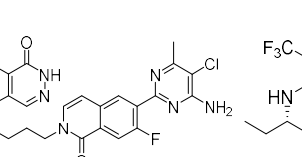
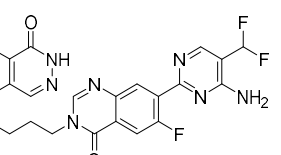
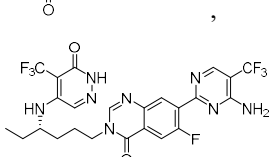

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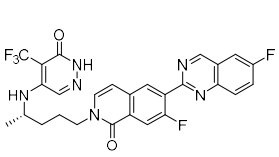
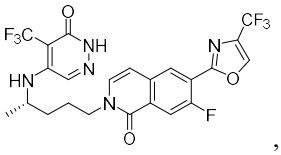
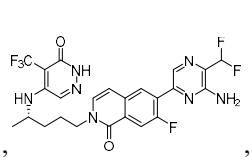
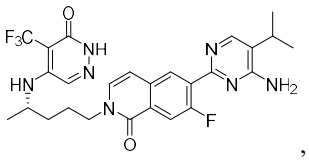
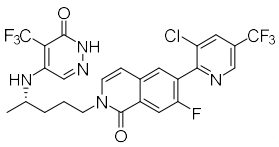
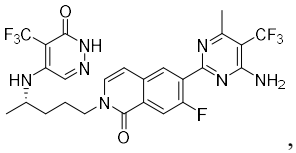
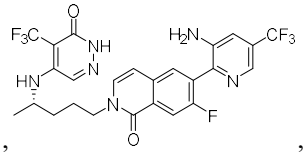
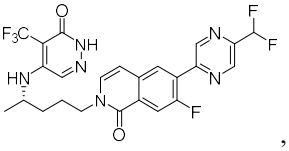
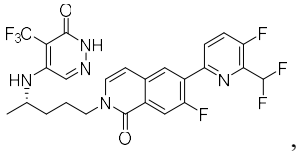
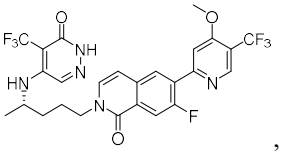
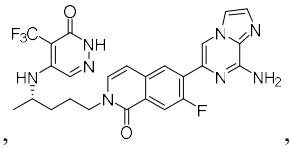
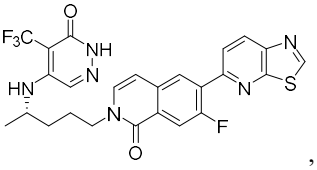
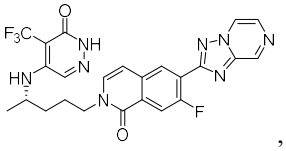
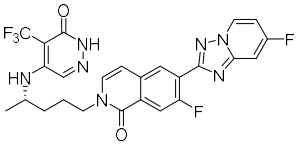
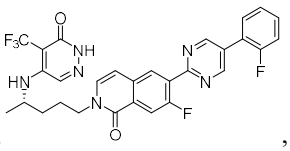
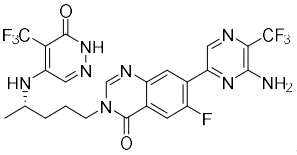

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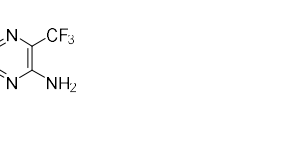
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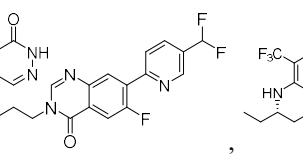
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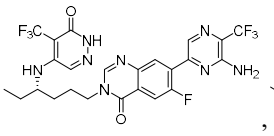
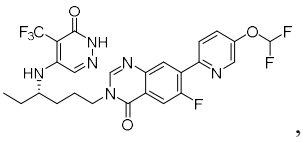
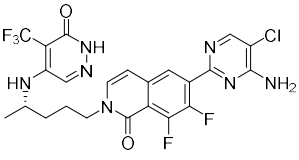
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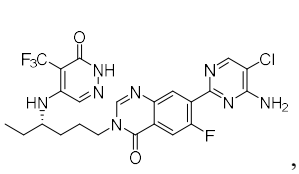
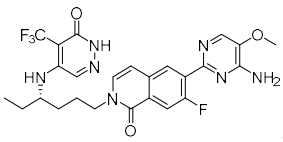
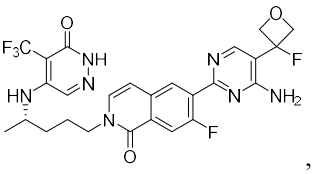
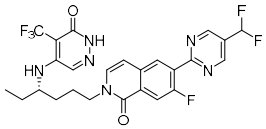
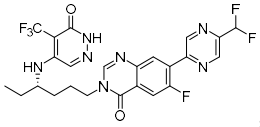
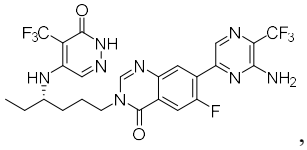
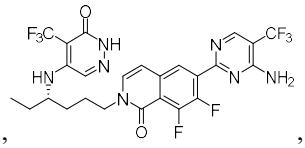
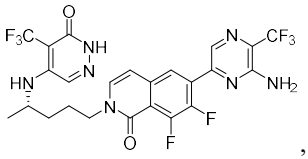
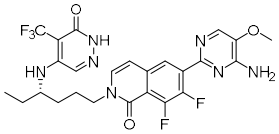
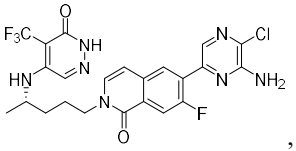
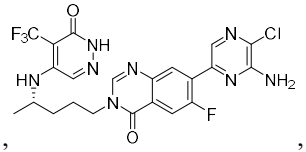
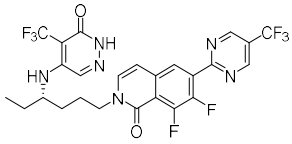
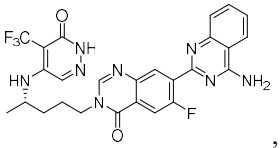
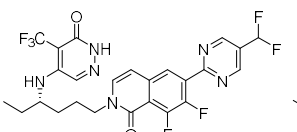
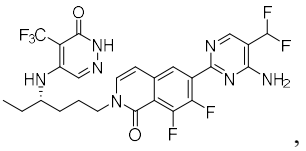
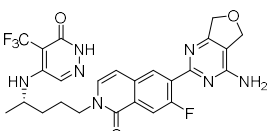
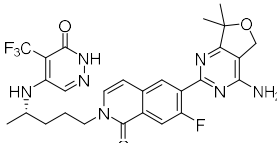
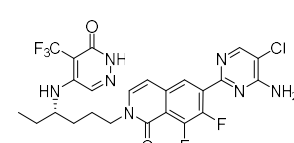
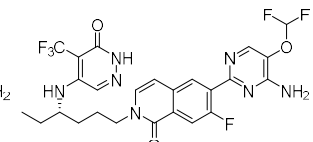
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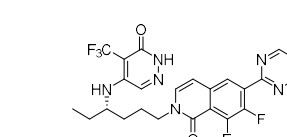

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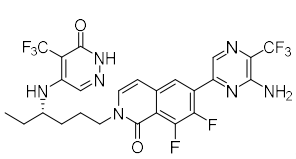
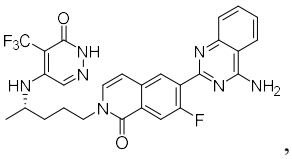
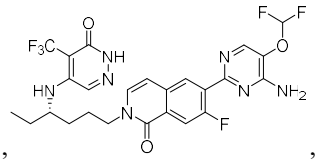
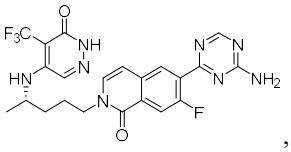
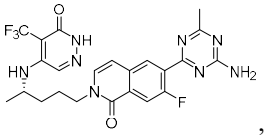
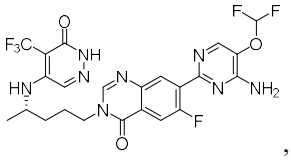
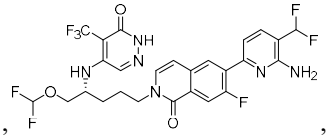
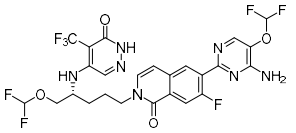
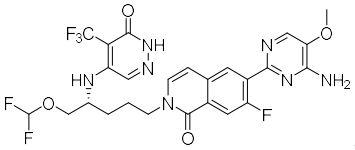
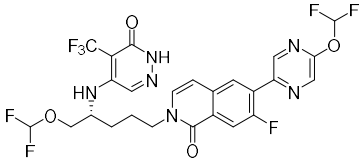
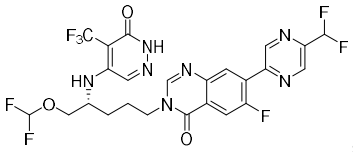
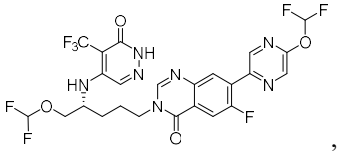
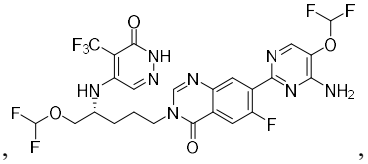
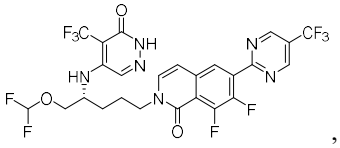
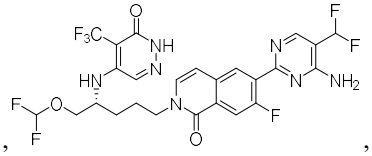
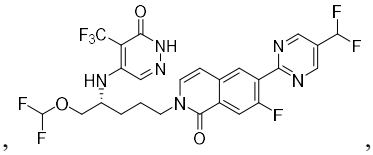
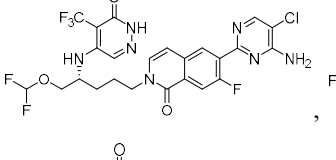
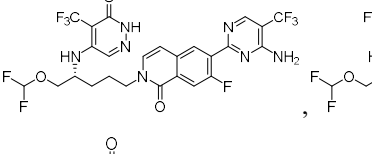
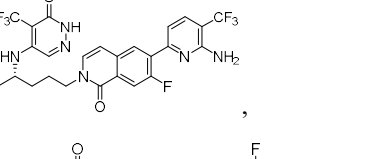
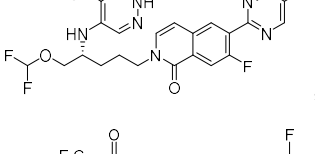
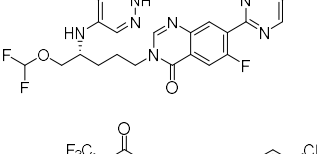
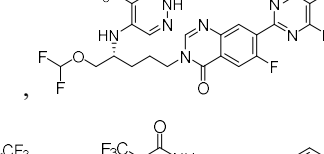
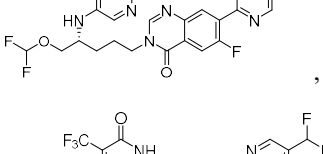
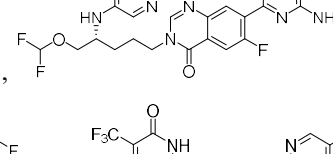
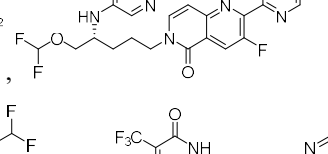
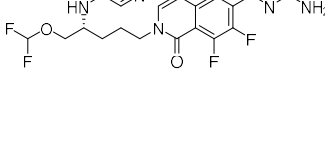
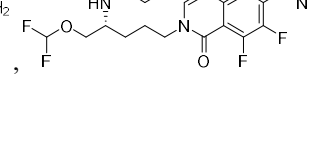
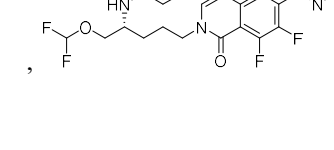
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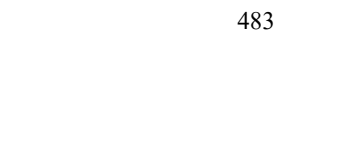
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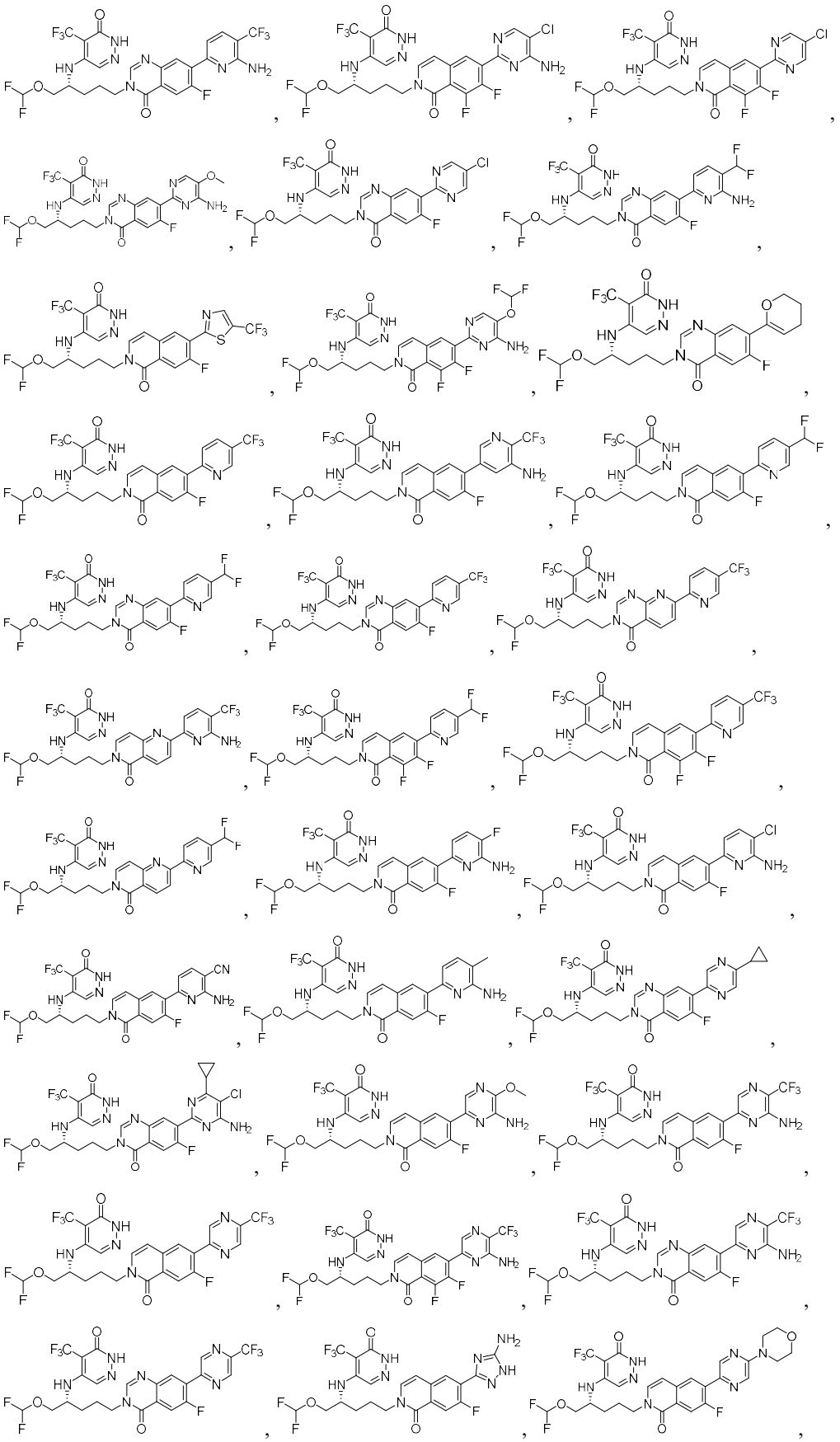
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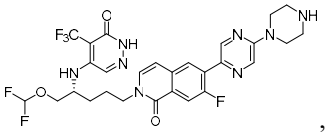
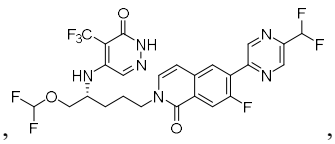
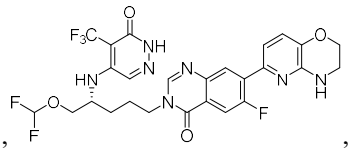
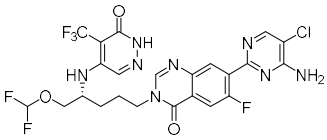
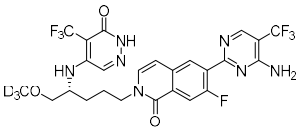
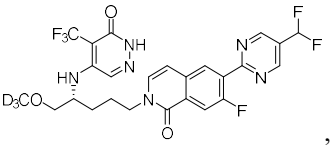
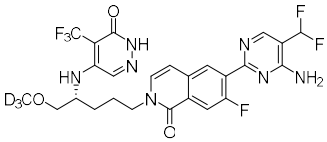
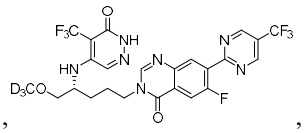
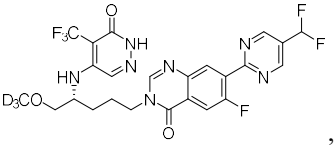
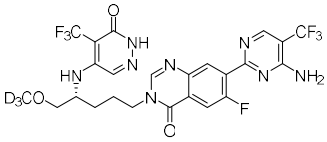
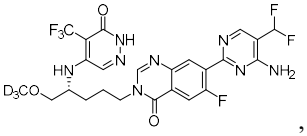
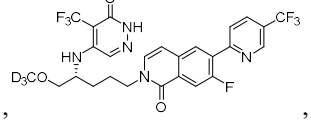
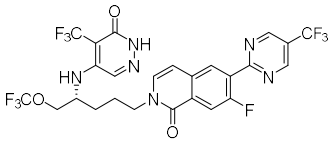
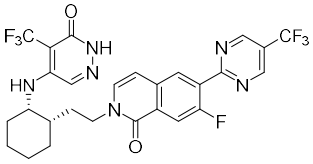
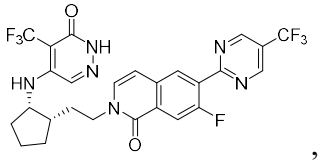
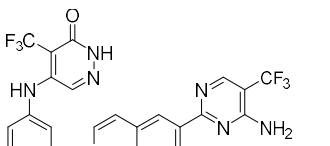
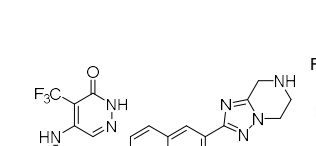
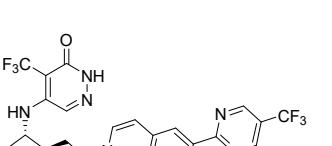
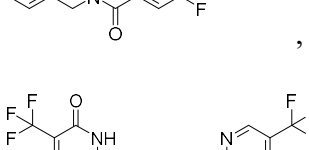
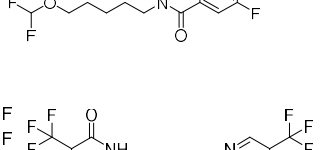
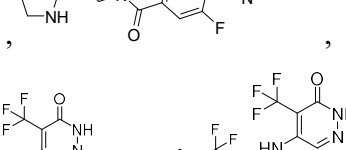
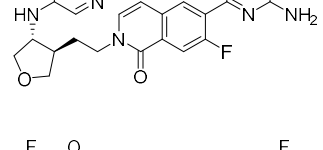
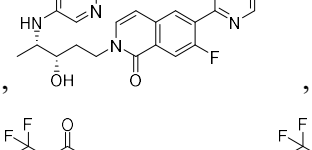
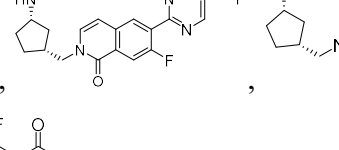
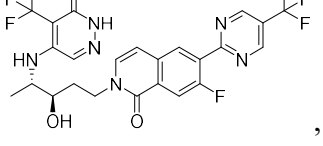
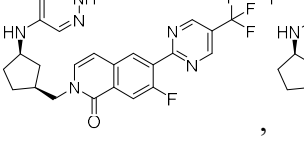
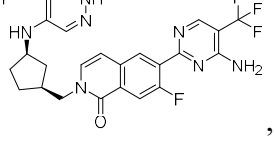
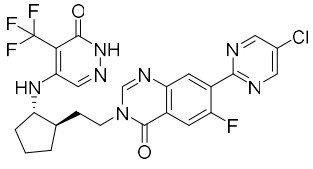
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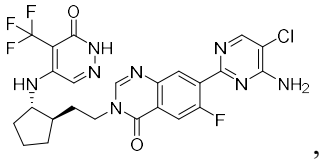
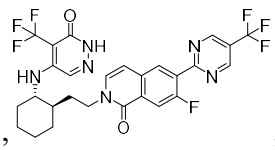
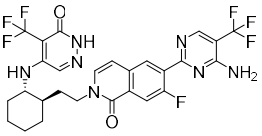
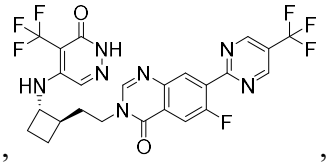
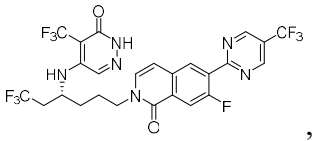
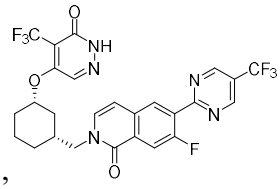
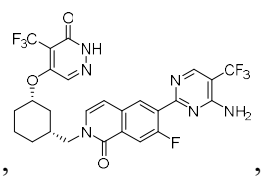
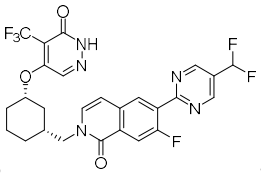
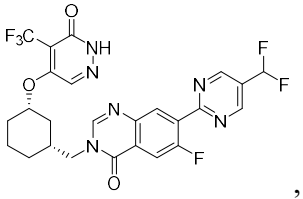
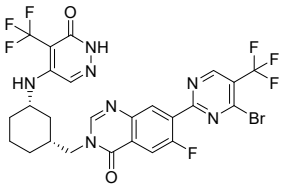
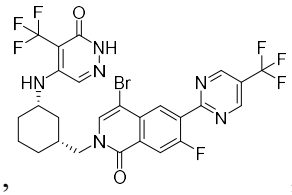
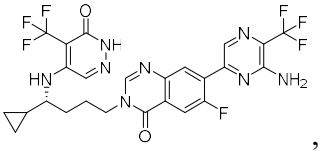
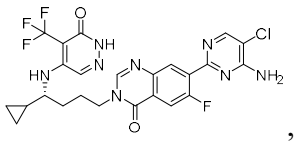
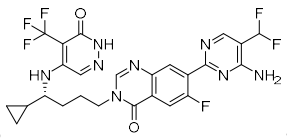
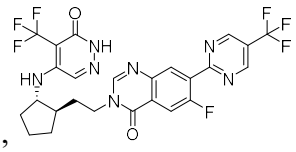
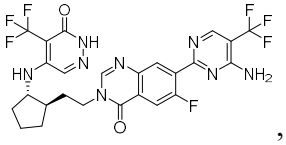
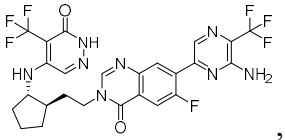
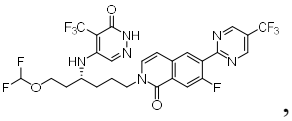
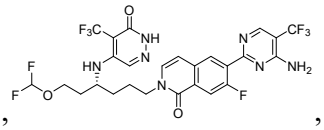
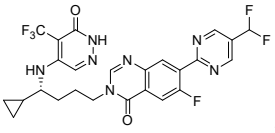
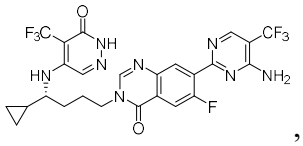
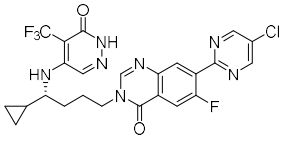
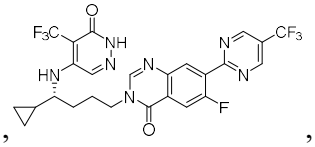
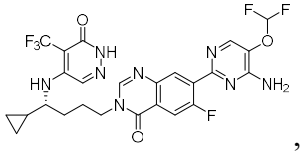
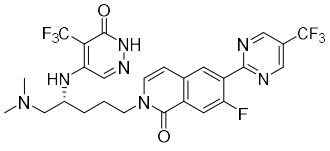
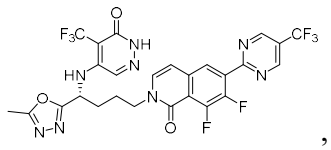

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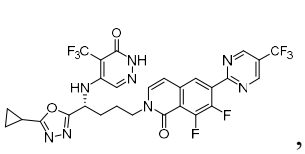
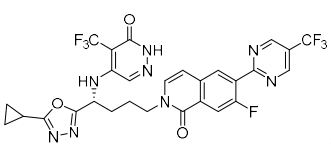
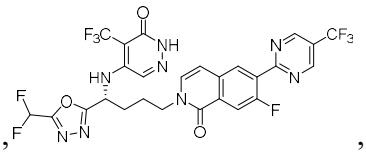
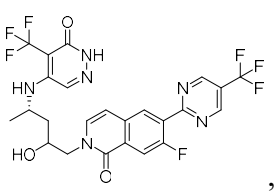
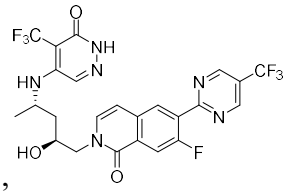
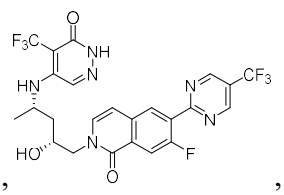
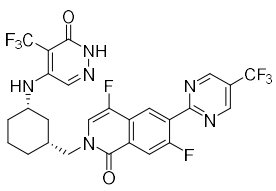
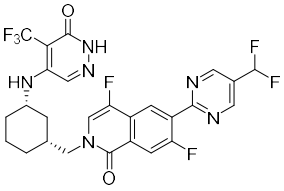
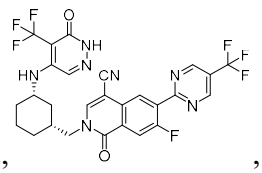
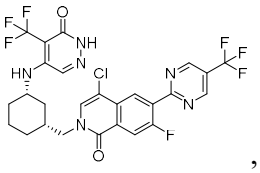
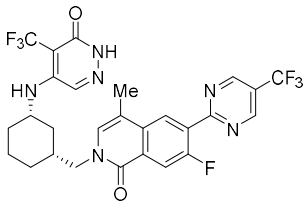
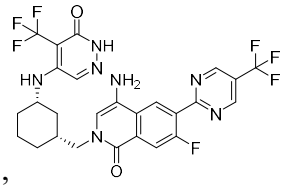
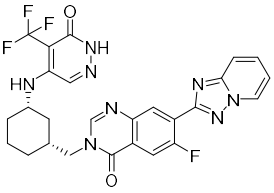
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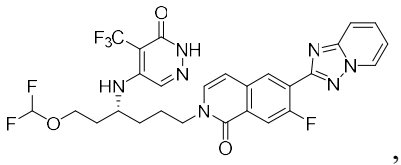
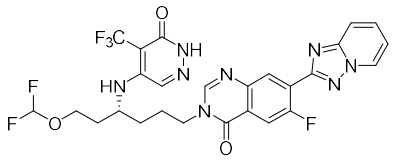
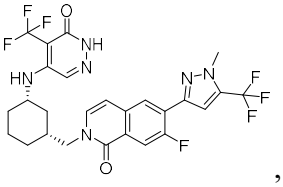
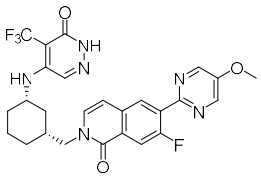
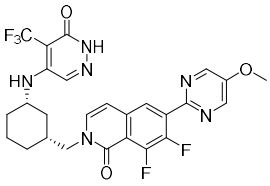
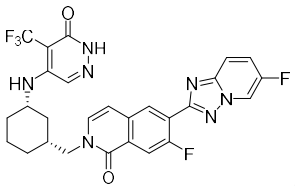
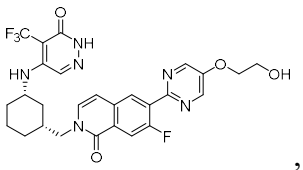
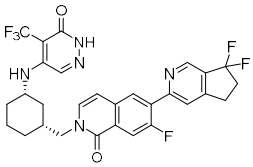
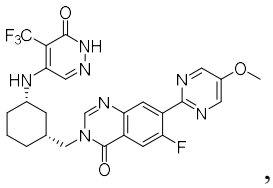
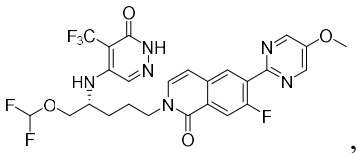



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6-([1,2,4]triazolo[1,5-a]pyridin-2-yl)-7-fluoro-2-(((1R,3S)-3-((6-oxo-5-(trifluoromethyl)-1,6-dihydropyridazin-4-yl)amino)cyclohexyl)methyl)isoquinolin-1(2H)-one,


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, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof.

18. A pharmaceutical composition comprising a compound of any one of claims 1-17, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or deuterated analog thereof, and a pharmaceutically acceptable excipient.

19. Use of a compound of any one of claims 1-17, or a pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or tautomer thereof, or a pharmaceutical composition of claim 18, in the manufacture of a medicament for treating cancer.