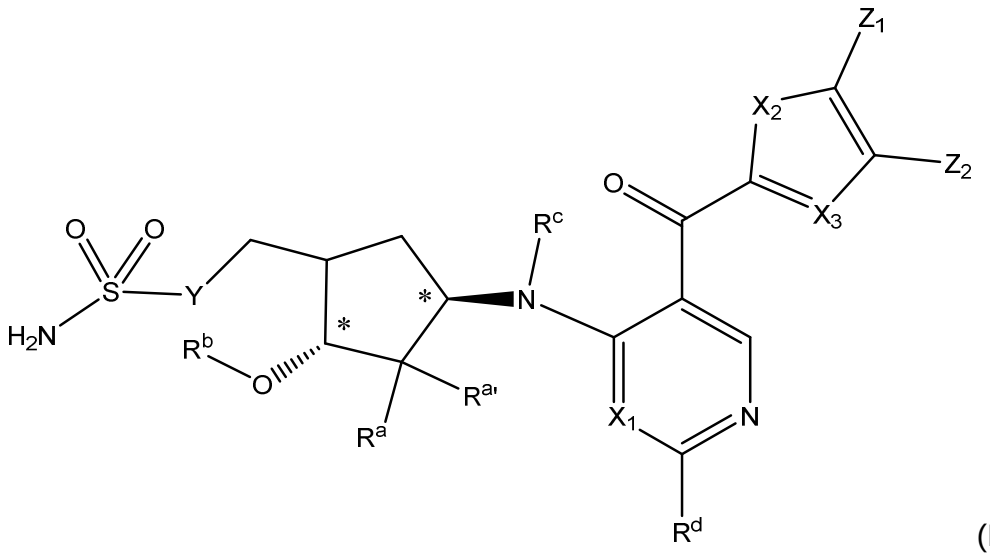
CLAIMS

1. A chemical entity chosen from compounds and pharmaceutically acceptable salts of formula (I):



(I)

WHEREIN:

stereochemical configurations depicted at asterisked positions indicate absolute stereochemistry;

Y is -O-, -CH_2-, or -N(H)-;

R^a is hydrogen, fluoro, -NH_2, or hydroxyl;

$R^{a'}$ is hydrogen or fluoro, provided that when R^a is -NH_2 or hydroxyl, $R^{a'}$ is hydrogen;

R^b is hydrogen or, together with the oxygen to which it is attached, forms a prodrug;

R^c is hydrogen or C_{1-4} alkyl;

R^d is hydrogen, halogen, -CF_3, or C_{1-4} alkyl;

X_1 is N;

X_2 is S or O;

X_3 is C(R^{x3}) or N;

R^{x3} is hydrogen, methyl, or halogen;

Z_1 is hydrogen, halogen, cyano, R^{z3}, -S-R^{z3}, -S(O)-R^{z3}, or -$S(O)_2$-R^{z3};

R^{z3} is an optionally substituted phenyl, an optionally substituted 5- to 7-membered cycloaliphatic, an optionally substituted 5- to 7-membered heterocyclyl, or an optionally substituted C_{1-4} aliphatic;

wherein Z_1 is not hydrogen, halogen, methyl, or cyano if Z_2 is hydrogen or methyl; and

(a) Z_2 is a ring system having an optionally substituted 5- to 7-membered heterocyclyl with 1-2 heteroatoms or an optionally substituted 5- to 7-membered cycloaliphatic fused to

(i) an optionally substituted 5-membered heteroaryl or an optionally substituted 6-membered aryl or heteroaryl to form a bicyclic group; or

(ii) an optionally substituted 9-membered heteroaryl or an optionally substituted 10-membered aryl or heteroaryl to form a tricyclic group;

OR

(b) Z_2 is L-R^e wherein L is $–L_1$-, -V_1-L_2-, or $–L_1$-V_1-L_2-;

L_1 is a C_{1-3} alkylene chain wherein 1 or 2 saturated carbon atoms are optionally substituted by (R^f)($R^{f'}$) and in which there are optionally one or two degrees of unsaturation;

each R^f is independently hydrogen; hydroxyl; -N(R^h)($R^{h'}$); C_{1-4} aliphatic optionally substituted with hydroxyl, -OCH_3, or cyclopropyl; -O-C_{1-4} aliphatic optionally substituted with hydroxyl, -OCH_3, or cyclopropyl; or, together with $R^{f'}$ and the carbon atom to which they are attached, form C=CH_2, or a 3- to 6-membered carbocycle or 4- to 6-membered heterocycle comprising a heteroatom chosen from N (which may be protonated or C_{1-4} alkylated), O, or S, the heteroatom optionally located immediately adjacent to the quaternary carbon of the heterocycle;

each $R^{f'}$ is independently hydrogen; C_{1-4} aliphatic optionally substituted with hydroxyl, -OCH_3, or cyclopropyl; -O-C_{1-4} aliphatic optionally substituted with hydroxyl, -OCH_3, or cyclopropyl; or, together with R^f and the carbon atom to which they are attached, form C=CH_2, or a 3- to 6-membered carbocycle or 4- to 6-membered heterocycle comprising a heteroatom chosen from N (which may be protonated or C_{1-4} alkylated), O, or S, the heteroatom optionally located immediately adjacent to the

quaternary carbon of the heterocycle; wherein if R^f is hydroxyl, $R^{f'}$ is not -O-C_{1-4} aliphatic optionally substituted with hydroxyl, -OCH_3, or cyclopropyl;

R^h and $R^{h'}$ are each independently hydrogen or C_{1-4} alkyl;

V_1 is -S-, -O-, -S(O)-, -$S(O)_2$-, -C(O)- or -N(R^g)-;

L_2 is a C_{0-2} alkylene chain wherein one saturated carbon atom is optionally substituted by (R^f)($R^{f'}$);

R^g is hydrogen or C_{1-4} alkyl; and

either (i) R^e is hydrogen, hydroxyl, halogen, -CF_3, or an optionally substituted C_{1-4} aliphatic,

with the proviso that R^e is not hydrogen if R^f and $R^{f'}$ are present and form a ring;

OR (ii) R^e is a ring chosen from optionally substituted 6-membered aryl, optionally substituted 5-to 6-membered heteroaryl, optionally substituted 3- to 7-membered cycloaliphatic, or optionally substituted 4- to 7-membered heterocyclyl, which is optionally fused to a second optionally substituted 6-membered aryl, optionally substituted 5-to 6-membered heteroaryl, optionally substituted 3- to 7-membered cycloaliphatic, or optionally substituted 4- to 7-membered heterocyclyl;

OR

(c) Z_2 is hydrogen.

2. The chemical entity of claim 1, wherein:

(a) Z_2 is a ring system having a 5- to 7-membered heterocyclyl with 1-2 heteroatoms or a 5- to 7-membered cycloaliphatic fused to

(i) a 5-membered heteroaryl or a 6-membered aryl or heteroaryl to form a bicyclic group; or

(ii) a 9-membered heteroaryl or a 10-membered aryl or heteroaryl to form a tricyclic group;

wherein the ring system is optionally substituted by 1-3 independent occurrences of halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, -S-C_{1-4} aliphatic, -S-C_{1-4} fluoroaliphatic, -$N(R^{z7})_2$, -$C(O)R^{z8}$, -$S(O)R^{z8}$, -$S(O)_2R^{z8}$, -$C(O)_2R^{z7}$, -$C(O)N(R^{z7})_2$, -$S(O)_2N(R^{z7})_2$, -$OC(O)N(R^{z7})_2$, -$N(R^{z7})C(O)R^{z8}$, -$N(R^{z7})SO_2R^{z8}$, -$N(R^{z7})C(O)OR^{z8}$, T_2-R^{z9}, a 5- to 6-membered heteroaryl, a 6-membered aryl, a 3- to 6-membered cycloaliphatic, or a 4- to 6-membered heterocyclyl; and the ring system is optionally substituted at one saturated carbon with oxo, a spirocyclic 3- to 6-membered carbocycle, or a spirocyclic 4- to 6-membered heterocycle;

each occurrence of R^{z7} is independently hydrogen or C_{1-4} alkyl;

each occurrence of R^{z8} is independently C_{1-4} alkyl;

T_2 is a C_{1-2} alkylene chain;

R^{z9} is cyano, -$N(R^{z7})_2$, -OR^{z7}, -$C(O)R^{z8}$, -$C(O)_2R^{z7}$,or -$C(O)N(R^{z7})_2$;

OR

(b) Z_2 is L-R^e wherein either:

(i) R^e is hydrogen, hydroxyl, halogen, -CF_3, or C_{1-4} aliphatic optionally substituted with one or more hydroxyl, halogen, or C_{1-4} aliphatic,

with the proviso that R^e is not hydrogen if R^f and $R^{f'}$ are present and form a ring;

OR (ii) R^e is a ring chosen from 6-membered aryl, 5-to 6-membered heteroaryl, 3- to 7-membered cycloaliphatic, or 4- to 7-membered heterocyclyl, which is optionally fused to a second 6-membered aryl, 5-to 6-membered heteroaryl, 3- to 7-membered cycloaliphatic, or 4- to 7-membered heterocyclyl, R^e being optionally substituted by 1-3 independent occurrences of halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, S-C_{1-4} aliphatic, S-C_{1-4} fluoroaliphatic, -$N(R^{z7})_2$, -$C(O)R^{z8}$, -$S(O)R^{z8}$, -$S(O)_2R^{z8}$, -$C(O)_2R^{z7}$, -$C(O)N(R^{z7})_2$, -$S(O)_2N(R^{z7})_2$, -$OC(O)N(R^{z7})_2$, -$N(R^{z7})C(O)R^{z8}$, -$N(R^{z7})SO_2R^{z8}$, -$N(R^{z7})C(O)OR^{z8}$, T_2-R^{z9}, a 5- to 6-membered heteroaryl, a 6-membered aryl, a 3- to 6-membered cycloaliphatic, or a 4- to 6-membered heterocyclyl; and which is optionally substituted at one saturated carbon with oxo, a spirocyclic 3- to 6-membered carbocycle, or a spirocyclic 4- to 6-membered heterocycle;

each occurrence of R^{z7} is independently hydrogen or C_{1-4} alkyl;

each occurrence of R^{z8} is independently C_{1-4} alkyl;

T_2 is a C_1-C_2 alkylene chain; and
R^{z9} is cyano, $-NO_2$, $-N(R^{z7})_2$, $-OR^{z7}$, $-C(O)R^{z8}$, $-C(O)_2R^{z7}$, or $-C(O)N(R^{z7})_2$.

3. The chemical entity of claim 1, wherein L is $-C(R^f)(R^{f'})-$, -S-, -S(O)-, $-S(O)_2-$, $-C(O)-$, $-C(=CH_2)-$, $-C(R^f)(R^{f'})-C(=CH_2)-$, $-C(R^f)(R^{f'})-C\equiv C-$, $-C(R^f)(R^{f'})-O-$, $-C(R^f)(R^{f'})-S-$, $-C(R^f)(R^{f'})-N(R^g)-$, $-C(R^f)(R^{f'})-N(R^g)-CH_2-$, $-C(R^f)(R^{f'})-CH_2-$, $-C(R^f)(R^{f'})-CH_2-CH_2-$, or $-C(O)-C(R^f)(R^{f'})-$.

4. The chemical entity of claim 1, wherein:
Z_1 is hydrogen, halogen, cyano, R^{z3}, $-S-R^{z3}$, $-S(O)-R^{z3}$, or $-S(O)_2-R^{z3}$;
R^{z3} is a phenyl, 5- to 7-membered cycloaliphatic, 5- to 7-membered heterocyclyl, or C_{1-4} aliphatic, any of which may be substituted with one or more independently selected R^{z4};
R^{z4} is hydroxyl, halogen, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, $-N(R^{z5})_2$, $-C(O)R^{z6}$, $-C(O)_2R^{z5}$, 5- or 6-membered cycloaliphatic or heterocyclyl, or a phenyl optionally substituted with one or more independently selected halogens;
each occurrence of R^{z5} is independently hydrogen or C_{1-4} alkyl; and
each occurrence of R^{z6} is independently C_{1-4} alkyl.

5. The chemical entity of claim 4, wherein Z_1 is hydrogen; halogen; cyano; phenyl optionally substituted with one or more independently selected halogens; 5- to 7-membered cycloaliphatic or heterocyclyl optionally fused to a 6-membered aryl, wherein the 5- to 7-membered cycloaliphatic or heterocyclyl optionally fused to a 6-membered aryl is optionally substituted with one or more independently selected halogens; C_{1-4} fluoroaliphatic; or a C_{1-4} aliphatic group optionally substituted with one or more hydroxyl, C_{1-4} alkoxy, phenyl optionally substituted with one more independently selected halogens, 5- or 6-membered cycloaliphatic, 5- or 6-membered heterocyclyl, or $-N(R^{z5})_2$.

6. The chemical entity of claim 2, wherein:

Z_2 is a ring system having a 5- to 7-membered heterocyclyl with 1-2 heteroatoms or a 5- to 7-membered cycloaliphatic fused to

(i) a 5-membered heteroaryl or 6-membered aryl or heteroaryl to form a bicyclic group; or

(ii) a 9-membered heteroaryl or 10-membered aryl or heteroaryl to form a tricyclic group;

wherein the ring system is optionally substituted by 1-3 independent occurrences of halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, S-C_{1-4} aliphatic, S-C_{1-4} fluoroaliphatic, $-N(R^{z7})_2$, $-C(O)R^{z8}$, $-S(O)R^{z8}$, $-S(O)_2R^{z8}$, $-C(O)_2R^{z7}$, $-C(O)N(R^{z7})_2$, $-S(O)_2N(R^{z7})_2$, $-OC(O)N(R^{z7})_2$, $-N(R^{z7})C(O)R^{z8}$, $-N(R^{z7})SO_2R^{z8}$, $-N(R^{z7})C(O)OR^{z8}$, T_2-R^{z9}, 5- to 6-membered heteroaryl, 6-membered aryl, 3- to 6-membered cycloaliphatic or heterocyclyl; and the ring system is optionally substituted at one saturated carbon with oxo, a spirocyclic 3- to 6-membered carbocycle, or a spirocyclic 4- to 6-membered heterocycle;

each occurrence of R^{z7} is independently hydrogen or C_{1-4} alkyl;

each occurrence of R^{z8} is independently C_{1-4} alkyl;

T_2 is a C_{1-2} alkylene chain; and

R^{z9} is cyano, $-N(R^{z7})_2$, $-OR^{z7}$, $-C(O)R^{z8}$, $-C(O)_2R^{z7}$, or $-C(O)N(R^{z7})_2$.

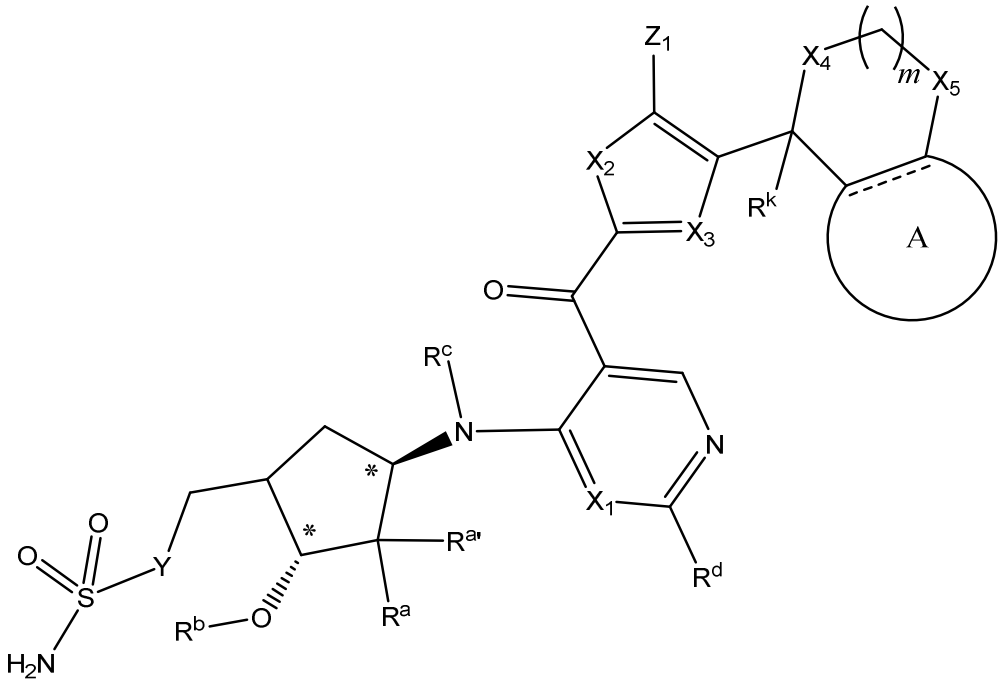
7. The chemical entity of claim 6, wherein:

Z_2 is a 5- to 7-membered heterocyclyl with 1-2 heteroatoms or a 5- to 7-membered cycloaliphatic fused to a 5-membered heteroaryl or 6-membered aryl or heteroaryl ring to form a bicyclic group, wherein the ring system is optionally substituted as defined in claim 6.

8. The chemical entity of claim 7, wherein:

Z_2 is a 6-membered heterocyclyl, the heterocyclyl containing 1 N or O atom, fused to a 6-membered aryl or heteroaryl ring to form a bicyclic group, wherein the ring system is optionally substituted as defined in claim 7.

9. The chemical entity of claim 6, chosen from compounds and pharmaceutically acceptable salts of formula (V):



(V)

wherein:

m is 0, 1, or 2;

X_4 is S, O, or N(R^{n4});

X_5 is O, C(O), or C(R^{x5})($R^{x5'}$), wherein X_5 is not O if X_4 is N(R^{n4}) or S;

R^{n4} is hydrogen or C_{1-4} alkyl;

R^{x5} is hydrogen, fluoro, hydroxyl, or C_{1-4} alkyl;

$R^{x5'}$ is hydrogen, fluoro, or C_{1-4} alkyl, wherein $R^{x5'}$ is not fluoro if R^{x5} is hydroxyl;

or R^{x5} and $R^{x5'}$, taken together with the carbon atom to which they are attached, form a spirocyclic 3- to 6-membered carbocycle or a spirocyclic to 4- to 6-membered heterocycle comprising only one heteroatom, the heteroatom being chosen from O, N, or S;

dashed lines indicate single or double bonds;

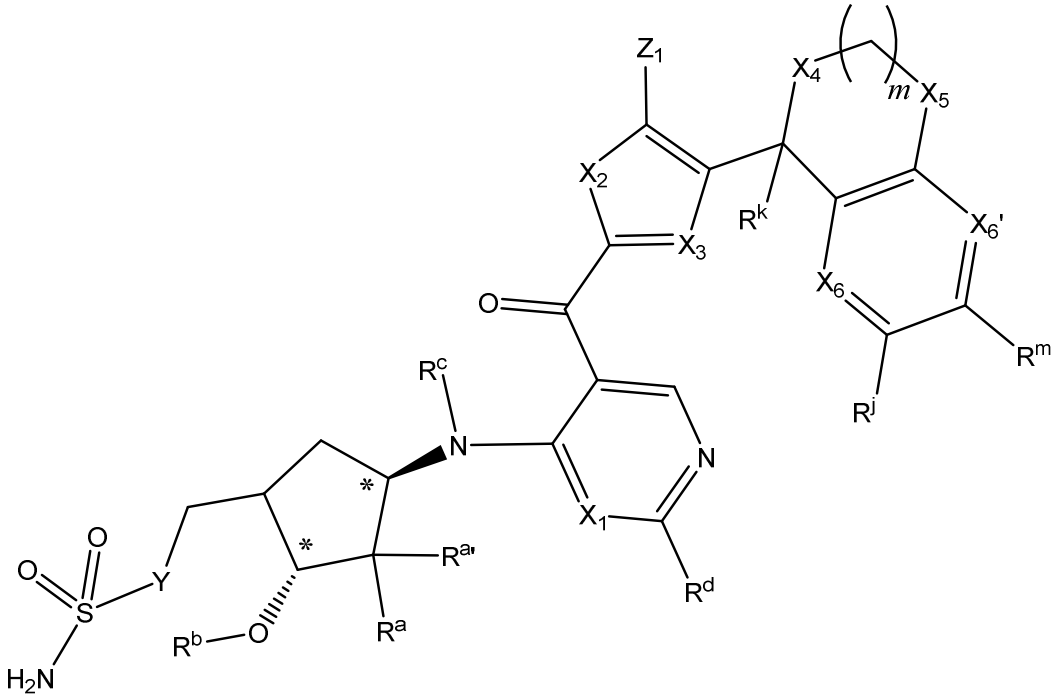
Ring A is a fused 5-membered heteroaryl or 6-membered aryl or heteroaryl optionally substituted with 1-3 independent occurrences of halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, -S-C_{1-4} aliphatic, -S-C_{1-4} fluoroaliphatic, -N(R^{z7})$_2$, -C(O)R^{z8}, -S(O)R^{z8}, -S(O)$_2R^{z8}$, -C(O)$_2R^{z7}$, -C(O)N(R^{z7})$_2$, -S(O)$_2$N(R^{z7})$_2$, -OC(O)N(R^{z7})$_2$, -N(R^{z7})C(O)R^{z8}, -N(R^{z7})SO$_2R^{z8}$, -N(R^{z7})C(O)OR^{z8}, T_2-R^{z9}, a 5- to 6-membered heteroaryl, a 6-membered aryl, a 3- to 6-membered cycloaliphatic, or a 4- to 6-membered heterocyclyl;

T_2 is a C_1-C_2 alkylene chain;

R^{z9} is cyano, -N(R^{z7})$_2$, -OR^{z7}, -C(O)R^{z8}, -C(O)$_2R^{z7}$,or -C(O)N(R^{z7})$_2$; and

R^k is hydrogen or methyl.

10. The chemical entity of claim 9, chosen from compounds and pharmaceutically acceptable salts of formula (VI):



(VI);

wherein:

m is 1 or 2;

X_6 is N or C(R^{x6});

X_6' is N or C($R^{x6'}$); and

each of R^{x6}, $R^{x6'}$, R^{j} and R^{m} is independently hydrogen, halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, $-N(R^{z7})_2$, $-C(O)_2R^{z7}$, $-C(O)N(R^{z7})_2$, $-S(O)_2N(R^{z7})_2$, $-CH_2-OR^{z7}$, $-CH_2NR^{z7}$, a 3- to 6-membered cycloaliphatic, or a 4- to 6-membered heterocyclyl;

wherein at least one of R^{x6}, $R^{x6'}$, R^{j} and R^{m} is hydrogen.

11. The chemical entity of claim 10, wherein:

m is 1;

X_5 is CH_2;

R^{n4} is hydrogen or methyl; and

each of R^{x6}, $R^{x6'}$, R^{j}, and R^{m} is independently hydrogen, chloro, fluoro, bromo, iodo, methyl, ethyl, isopropyl, cyano, cyclopropyl, CF_3, $-OCH_3$, $-OCH_2CH_3$, or $-C\equiv CH$;

wherein at least one of R^{x6}, R^{x7}, R^{j} and R^{m} is hydrogen.

12. The chemical entity of claim 10, wherein:

X_4 is O or N(H);

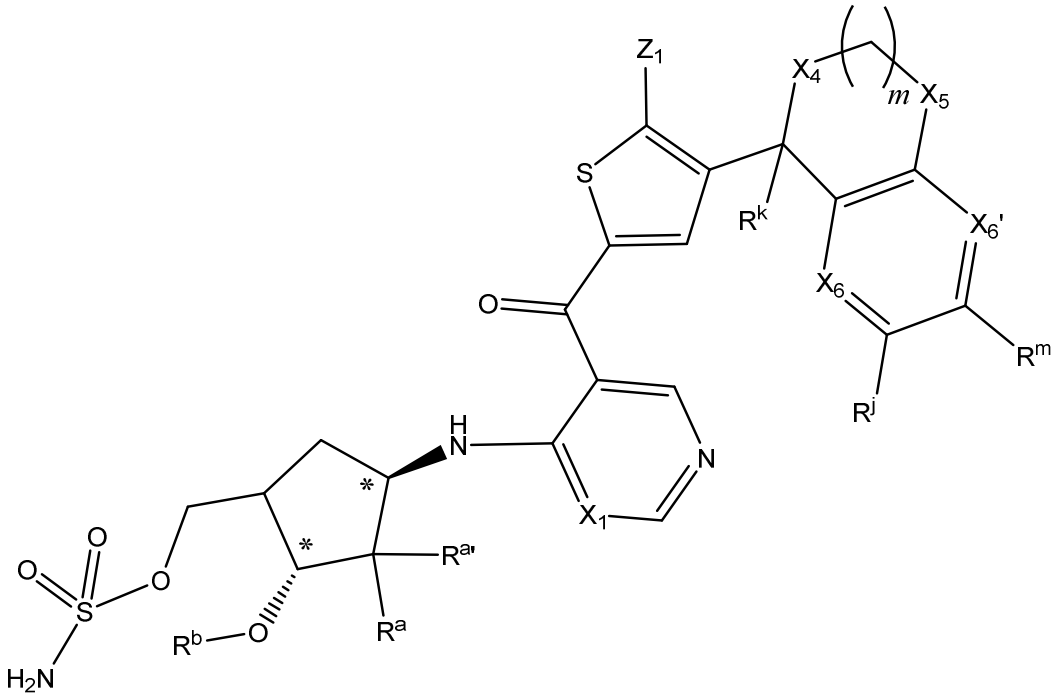
X_6 is N or C(H);

X_6' is C(H);

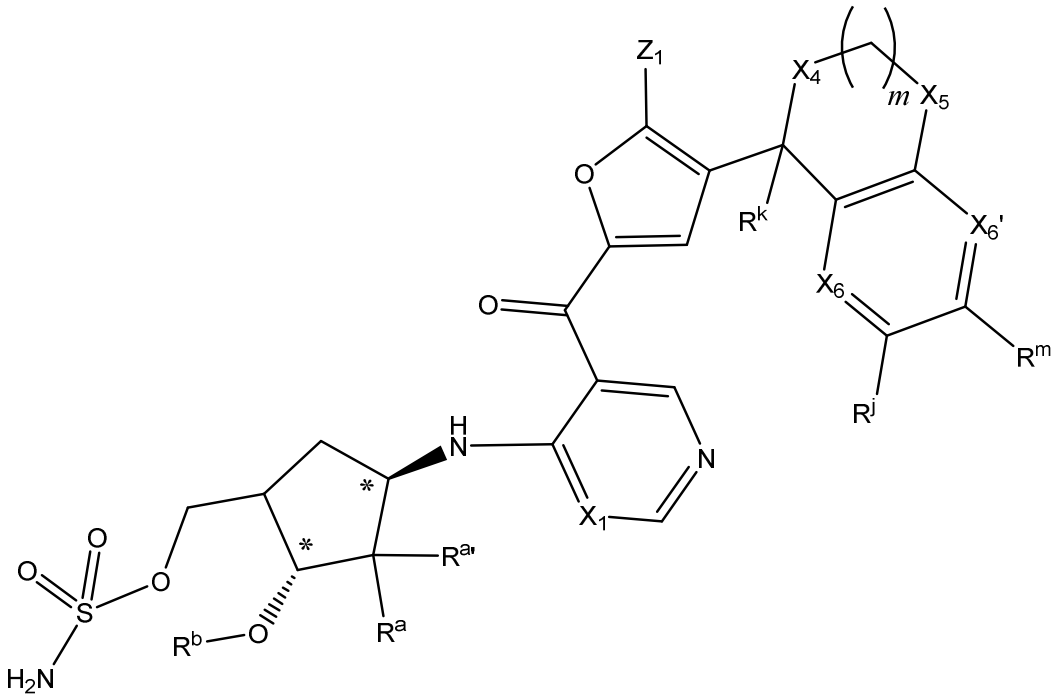
R^{m} is hydrogen, fluoro or chloro; and

R^{j} is methyl, ethyl, isopropyl, hydrogen, fluoro, chloro, bromo, cyclopropyl, $-C\equiv CH$ or $-CF_3$.

13. The chemical entity of claim 10, chosen from compounds and pharmaceutically acceptable salts of formulae (VIa) and (VIb):

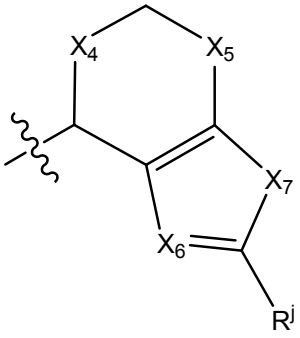


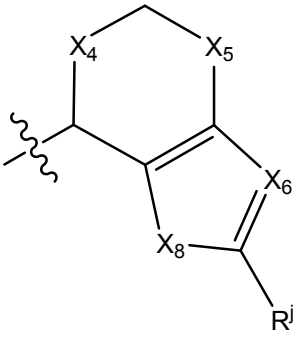
(VIa)



(VIb).

14. The chemical entity of claim 9, wherein Z_2 is



or


; and wherein

X_4 is O or N(R^{n4});

X_5 is C(R^{x5})($R^{x5'}$);

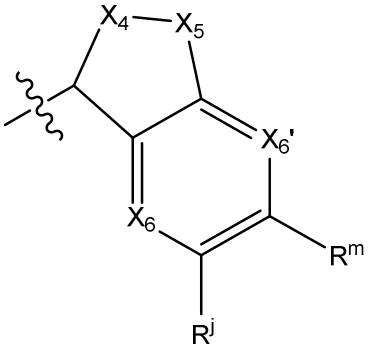
X_6 is N or C(R^{x6});

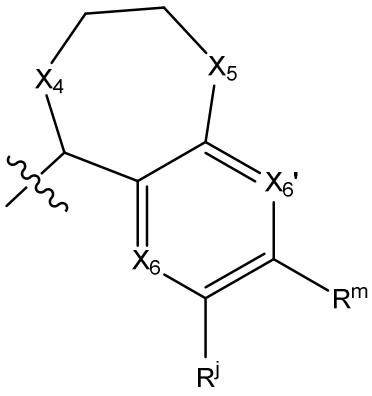
X_7 is O or S;

X_8 is S or N(H); and

R^{x6} and R^j are each independently hydrogen, halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, -N(R^{z7})$_2$, -C(O)$_2R^{z7}$, -C(O)N(R^{z7})$_2$, -S(O)$_2$N(R^{z7})$_2$, -CH_2-OR^{z7}, -CH_2N(R^{z7})$_2$, a 3- to 6-membered cycloaliphatic, or a 4- to 6-membered heterocyclyl.

15. The chemical entity of claim 9, wherein Z_2 is



, or


; and wherein

X_4 is O or N(R^{n4});

X_5 is C(R^{x5})($R^{x5'}$);

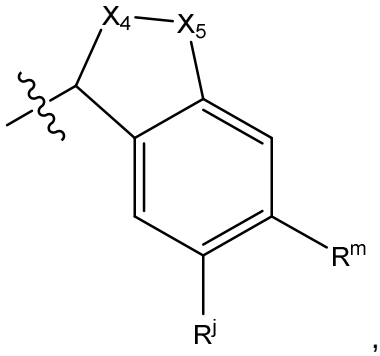
X_6 is N or C(R^{x6});

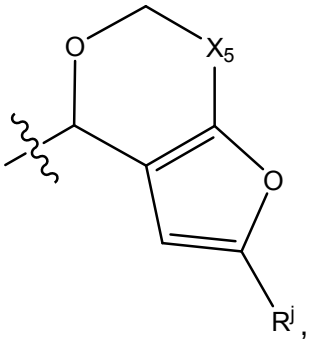
X_6' is N or C(R^{x6}); and

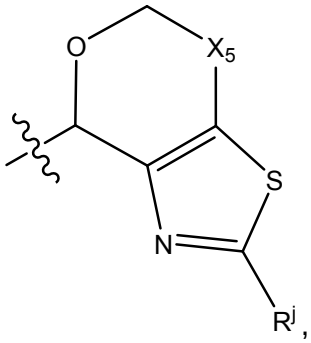
each R^{x6}, R^{j}, and R^{m} is independently hydrogen, halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, $-N(R^{z7})_2$, $-C(O)_2R^{z7}$, $-C(O)N(R^{z7})_2$, $-S(O)_2N(R^{z7})_2$, $-CH_2-OR^{z7}$, $-CH_2N(R^{z7})_2$, a 3- to 6-membered cycloaliphatic, or a 4- to 6-membered heterocyclyl,

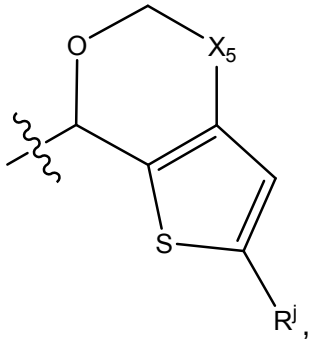
wherein at least one R^{x6}, R^{j}, or R^{m} is hydrogen.

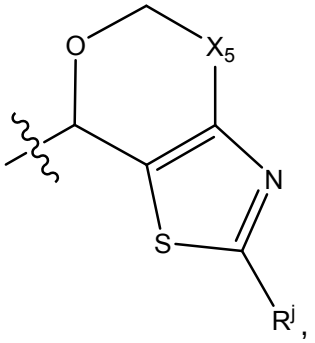
16. The chemical entity of claim 9, wherein Z_2 is

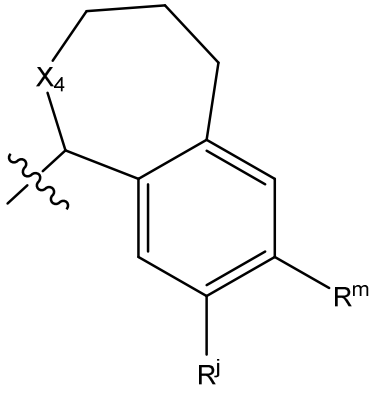


,


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,


,


, or


;

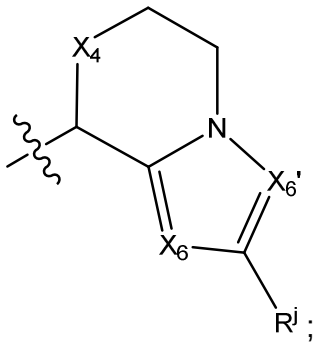
X_5 is $C(R^{x5})(R^{x5'})$;

R^{x5} and $R^{x5'}$ are independently hydrogen or fluoro; or, together with the carbon to which they are attached, form a cyclopropyl ring;

R^{j} is hydrogen, chloro, fluoro, bromo, methyl, ethyl, isopropyl, cyano, cyclopropyl, CF_3, $-OCH_3$, $-OCH_2CH_3$, or $-C{\equiv}CH$; and

R^{m} is hydrogen, fluoro, or chloro.

17. The chemical entity of claim 9, wherein Z_2 is



X_4 is O or N(R^{n4});

X_6 is N or C(R^{x6});

X_6' is N or C(R^{x6});

R^{n4} is hydrogen or C_{1-4} alkyl; and

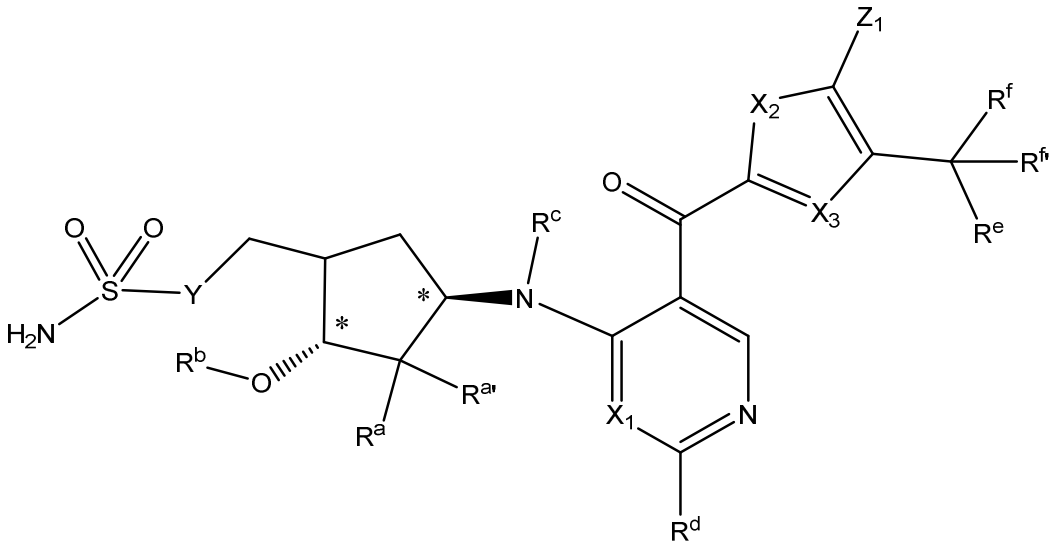
each of R^{x6}, R^j or R^m is independently halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, -N(R^{z7})$_2$, -C(O)$_2R^{z7}$, -C(O)N(R^{z7})$_2$, -S(O)$_2$N(R^{z7})$_2$, -CH_2-OR^{z7}, -CH_2NR^{z7}, a 3- to 6-membered cycloaliphatic, or a 4- to 6-membered heterocyclyl.

18. The chemical entity of claim 1, wherein Z_2 is L-R^e.

19. The chemical entity of claim 18, wherein:

L is -C(R^f)($R^{f'}$)-, -S-, -C(=O)-, -C(R^f)($R^{f'}$)-O-, -C(R^f)($R^{f'}$)-S-, -C(R^f)($R^{f'}$)-N(R^g)-, -C(R^f)($R^{f'}$)-CH_2- or -C(R^f)($R^{f'}$)-C≡C-.

20. The chemical entity of claim 19, chosen from compounds and pharmaceutically acceptable salts of formula (VIII):



(VIII).

21. The chemical entity of claim 18, wherein:

R^e is a ring chosen from 3- to 7-membered cycloaliphatic or 4- to 7-membered heterocyclyl, which is optionally fused to a second 6-membered aryl, 5- to 6-membered heteroaryl, 3- to 7-membered cycloaliphatic, or 4- to 7-membered heterocyclyl, which is optionally substituted by 1-3 independent occurrences of halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, S-C_{1-4} aliphatic, S-C_{1-4} fluoroaliphatic, $-N(R^{z7})_2$, $-C(O)R^{z8}$, $-S(O)R^{z8}$, $-S(O)_2R^{z8}$, $-C(O)_2R^{z7}$, $-C(O)N(R^{z7})_2$, $-S(O)_2N(R^{z7})_2$, $-OC(O)N(R^{z7})_2$, $-N(R^{z7})C(O)R^{z8}$, $-N(R^{z7})SO_2R^{z8}$, $-N(R^{z7})C(O)OR^{z8}$, T_2-R^{z9}, a 5- to 6-membered heteroaryl, a 6-membered aryl, a 3- to 6-membered cycloaliphatic, or a 4- to 6-membered heterocyclyl; and which is optionally substituted at one saturated carbon with oxo, a spirocyclic 3- to 6-membered carbocycle, or a spirocyclic 4- to 6-membered heterocycle;

each occurrence of R^{z7} is independently hydrogen or C_{1-4} alkyl;

each occurrence of R^{z8} is independently C_{1-4} alkyl;

T_2 is a C_1-C_2 alkylene chain; and

R^{z9} is cyano, $-N(R^{z7})_2$, $-OR^{z7}$, $-C(O)R^{z8}$, $-C(O)_2R^{z7}$,or $-C(O)N(R^{z7})_2$.

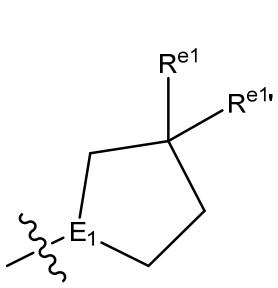
22. The chemical entity of claim 18, wherein:

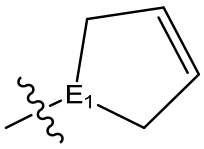
each R^f is independently hydrogen, hydroxyl, $N(R^h)(R^{h'})$, C_{1-4} alkoxy, cyclopropyl, or C_{1-4} alkyl optionally substituted with hydroxyl or $-OCH_3$;

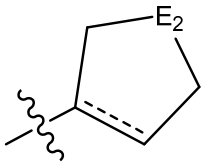
each $R^{f'}$ is independently hydrogen, cyclopropyl, or C_{1-4} alkyl optionally substituted with hydroxyl or $-OCH_3$; and

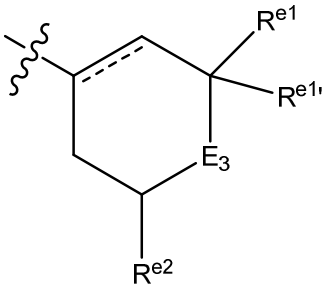
R^e is a 5- to 7-membered cycloaliphatic ring or a 5- to 7-membered heterocyclyl having only one heteroatom, wherein the ring is optionally substituted as defined in any one of claims 18 to 21.

23. The chemical entity of claim 18, wherein R^e is

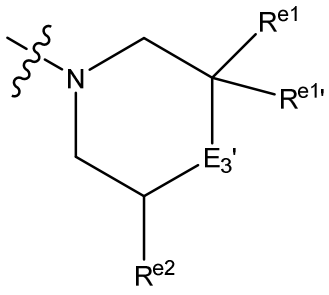


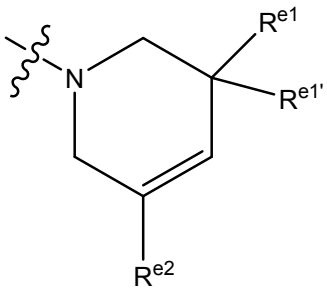
,


,


,


,



, or


;

and wherein

dashes indicate single or double bonds;

E_1 is N or C(H);

E_2 is O, S, or CH_2;

E_3 is O, S, $N(R^{e3})$, or $C(H)(R^{e3})$;

E_3' is O, $N(R^{e3})$ or $C(H)(R^{e3})$;

R^{e1} and $R^{e1'}$ are each independently hydrogen or fluoro;

R^{e2} is hydrogen or methyl; and

R^{e3} is hydrogen or methyl.

24. The chemical entity of claim 20, wherein:

R^f and $R^{f'}$ are each independently hydrogen, C_{1-4} alkyl, or cyclopropyl; or are taken together to form $=CH_2$; and

R^e is a ring chosen from 6-membered aryl or 5-to 6-membered heteroaryl, which is optionally fused to a second 6-membered aryl, 5-to 6-membered heteroaryl, 3- to 7-membered cycloaliphatic, or 4- to 7-membered heterocyclyl, and is optionally substituted with 1-3 independent occurrences of halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, $-N(R^{z7})_2$, $-C(O)_2R^{z7}$, $-C(O)N(R^{z7})_2$, $-S(O)_2N(R^{z7})_2$, $-CH_2-OR^{z7}$, $-CH_2NR^{z7}$ or a 3- to 6-membered cycloaliphatic or 4- to 6-membered heterocyclyl.

25. The chemical entity of claim 20, wherein:

R^f is hydrogen, hydroxyl, $N(R^h)(R^{h'})$, $-OCH_3$, cyclopropyl, or C_{1-4} aliphatic optionally substituted with hydroxyl or $-OCH_3$;

$R^{f'}$ is hydrogen, cyclopropyl, or C_{1-4} aliphatic optionally substituted with hydroxyl or $-OCH_3$;

or, together with the carbon atom to which they are attached, R^f and $R^{f'}$ form a 4- to 6-membered heterocycle comprising a heteroatom chosen from N (which may be protonated or C_{1-4} alkylated), O, or S, the heteroatom optionally located immediately adjacent to the quaternary carbon of the heterocycle;

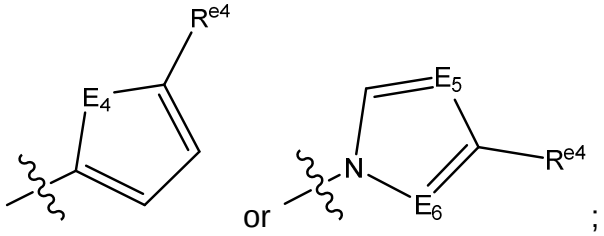
wherein at least one of R^f and $R^{f'}$ comprises at least one heteroatom; and

R^e is a ring chosen from 6-membered aryl or 5-to 6-membered heteroaryl, which is optionally fused to a second 6-membered aryl, 5-to 6-membered heteroaryl, 3- to 7-membered cycloaliphatic, or 4- to 7-membered heterocyclyl, and is optionally substituted with one or more halogen, C_{1-4} aliphatic optionally substituted with 1-3 indpendent occurrences of halogen, hydroxyl, cyano, C_{1-4} aliphatic, C_{1-4} fluoroaliphatic, C_{1-4} alkoxy, C_{1-4} fluoroalkoxy, $-N(R^{z7})_2$, $-C(O)_2R^{z7}$, $-C(O)N(R^{z7})_2$, $-S(O)_2N(R^{z7})_2$, $-CH_2-OR^{z7}$, $-CH_2NR^{z7}$, a 3- to 6-membered cycloaliphatic, or a 4- to 6-membered heterocyclyl.

26. The chemical entity of claim 18, wherein:

R^e is a ring chosen from 6-membered aryl or 5-to 6-membered heteroaryl, which is optionally substituted with 1-3 independent occurrences of chloro, fluoro, bromo, iodo, methyl, ethyl, cyano, cyclopropyl, CF_3, $-OCH_3$, $-OCH_2CH_3$, or $-C\equiv CH$.

27. The chemical entity of claim 18, wherein R^e is:



;

E_4 is S or O;

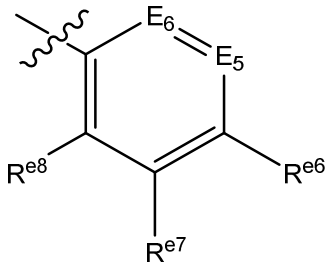
E_5 is N or C(R^{e5});

E_6 is N or C(H);

R^{e4} is hydrogen, methyl, chloro, fluoro, bromo, iodo, cyano, or $-CF_3$; and

R^{e5} is hydrogen or halogen.

28. The chemical entity of claim 18, wherein R^e is



;

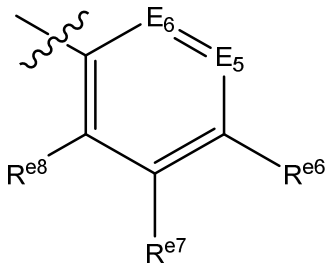
E_5 is N or C(R^{e5});

E_6 is N or C(H);

each of R^{e5}, R^{e6}, R^{e7}, and R^{e8} is independently hydrogen, halogen, methyl, ethyl, isopropyl, $-OCH_3$, $-CF_3$, or $-C\equiv CH$;

and at least two of R^{e5}, R^{e6}, R^{e7}, and R^{e8} are hydrogen.

29. The chemical entity of claim 18, wherein R^e is



;

E_5 is N or C(R^{e5});

E_6 is N or C(H);

R^{e5} is hydrogen, halogen, methyl, -OCH_3, -CF_3, or -C≡CH;

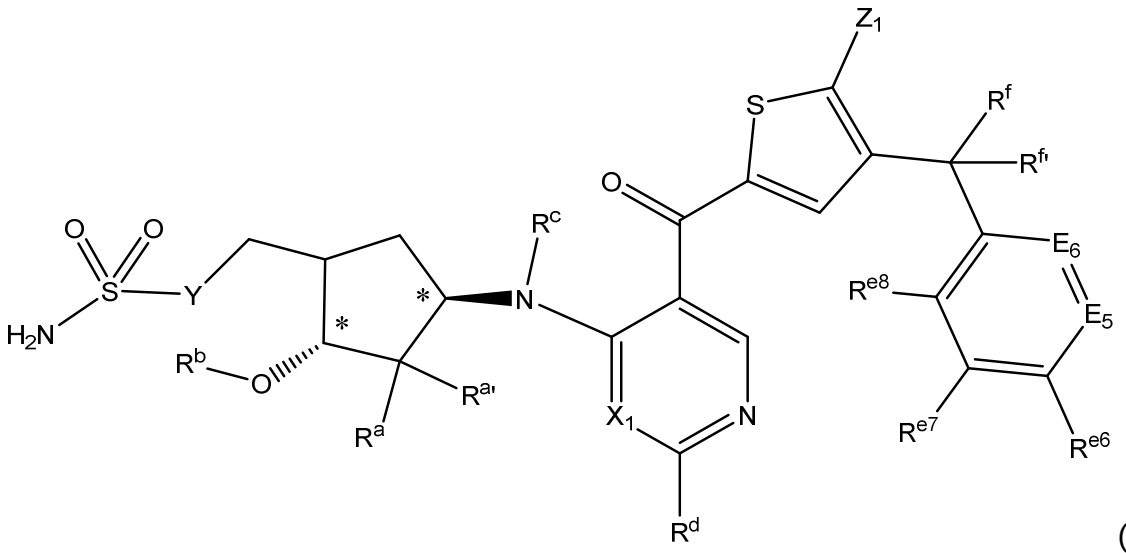
R^{e6} is hydrogen, fluoro, or chloro;

R^{e7} is hydrogen, fluoro, or chloro; and

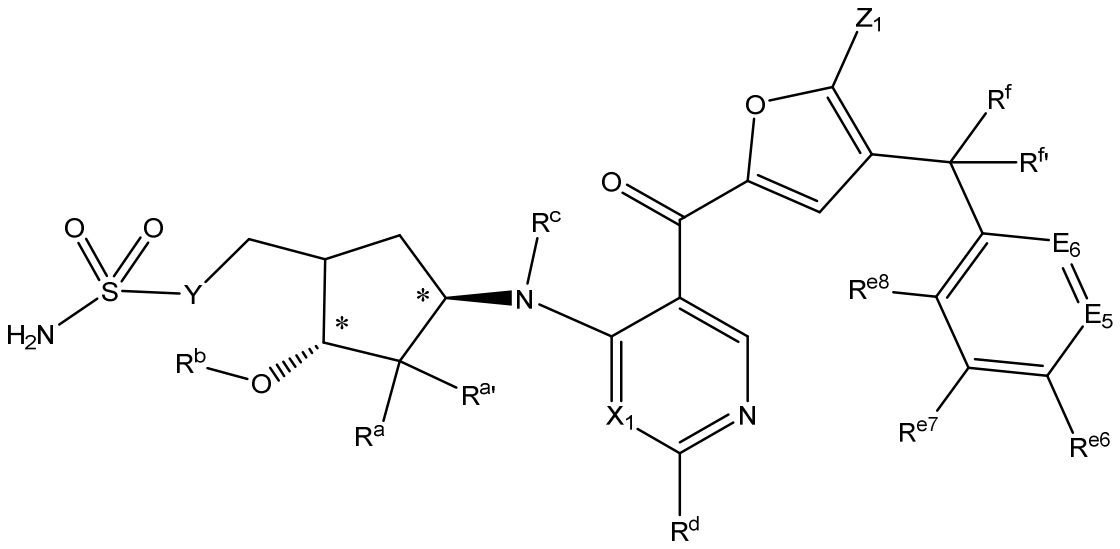
R^{e8} is hydrogen, halogen, methyl, -OCH_3, or cyano;

wherein at least one of R^{e6}, R^{e7}, and R^{e8} is hydrogen.

30. The chemical entity of claim 28, chosen from compounds and pharmaceutically acceptable salts of formulae (VIIIa) and (VIIIb):



(VIIIa)



(VIIIb).

31. The chemical entity of claim 18, wherein R^e is hydrogen, hydroxyl, halogen, $-CF_3$, or C_{1-4} alkyl optionally substituted with one or more hydroxyl, halogen, or C_{1-4} alkyl.

32. The chemical entity of claim 1, wherein:

Z_1 is hydrogen, halogen, cyano, or C_{1-4} aliphatic optionally substituted with one or more hydroxyl, C_{1-4} alkoxy, $-N(R^{z5})_2$, or phenyl optionally substituted with one more independently selected halogens; and

each occurrence of R^{z5} is independently hydrogen or C_{1-4} alkyl.

33. The chemical entity of claim 1, wherein Z_1 is hydrogen, chloro, or methyl.

34. The chemical entity of claim 5, wherein Z_2 is hydrogen.

35. The chemical entity of claim 1, wherein R^b is hydrogen.

36. The chemical entity of claim 1, wherein R^b is $-C(O)-R^{bx}$,

R^{bx} is C_{1-4} alkyl, $-CH(R^{by})-NH_2$, pyrrolidinyl, or $-L_b-OPO_3H_2$,

R^{by} is C_{1-4} alkyl optionally substituted with hydroxyl, phenyl, phenolyl, imidazolyl, carboxyl, amino, guanidino, $-SCH_3$, $-C(O)NH_2$, or indolyl,

L_b is a bivalent linker chosen from C_{1-4} alkylene, $-(CH_2)_{n1}$-phenylene-$(CH_2)_{n2}$- where n1 is 0 or 1 and n2 is 1 or 2.

37. The chemical entity of claim 1, wherein at least one of the following is true:

Y is -O-;

R^a is hydrogen;

$R^{a'}$ is hydrogen;

R^c is hydrogen;

R^d is hydrogen; or

X_3 is C(H).

38. (Currently Amended) The chemical entity of claim 1, wherein the chemical entity is chosen from:

I-1	[(1R,2R,3S,4R)-4-{[5-({4-[(1S)-1-(6-bromopyridin-2-yl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({4-[(1R)-1-(6-bromopyridin-2-yl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-2	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(6-chloropyridin-2-yl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(6-chloropyridin-2-yl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-3	[(1R,2S,4R)-4-{[5-({4-[(1R)-1-(3-bromophenyl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-1-(3-bromophenyl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
	[(1R,2S,4R)-4-{[5-({4-[(R)-(3-chlorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl

I-4	sulfamate; [(1R,2S,4R)-4-{[5-({4-[(S)-(3-chlorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-5	[(1R,2S,4R)-4-{[5-({4-[(1R)-1-(3-chlorophenyl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-1-(3-chlorophenyl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-6	[(1R,2S,4R)-4-{[5-({4-[(R)-amino(3-chlorophenyl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(S)-amino(3-chlorophenyl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-7	[(1R,2S,4R)-4-{[5-({4-[(R)-(3-chlorophenyl)(hydroxy)methyl]-5-(methoxymethyl)-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(S)-(3-chlorophenyl)(hydroxy)methyl]-5-(methoxymethyl)-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-8	[(1R,2R,3S,4R)-4-{[5-({4-[(1S)-1-amino-1-(3-chlorophenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({4-[(1R)-1-amino-1-(3-chlorophenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-9	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(3-chlorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(3-chlorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-10	[(1R,2R,3S,4R)-4-{[5-({4-[(R)-amino(6-bromopyridin-2-yl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({4-[(S)-amino(6-bromopyridin-2-yl)methyl]-5-

chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;

[(1R,2S,4R)-4-{[5-({4-[(R)-(3-chlorophenyl)(hydroxy)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-11 [(1R,2S,4R)-4-{[5-({4-[(S)-(3-chlorophenyl)(hydroxy)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

[(1R,2S,4R)-4-{[5-({4-[(1S)-1-amino-1-(3-chlorophenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-12 [(1R,2S,4R)-4-{[5-({4-[(1R)-1-amino-1-(3-chlorophenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

[(1R,2S,4R)-4-{[5-({4-[(R)-(3-chlorophenyl)(hydroxy)methyl]-5-(hydroxymethyl)-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-13 [(1R,2S,4R)-4-{[5-({4-[(S)-(3-chlorophenyl)(hydroxy)methyl]-5-(hydroxymethyl)-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

[(1R,2R,3S,4R)-4-{[5-({4-[(R)-amino(3-chlorophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;

I-14 [(1R,2R,3S,4R)-4-{[5-({4-[(S)-amino(3-chlorophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;

[(1R,2S,4R)-4-{[5-({4-[(R)-amino(3-chlorophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-15 [(1R,2S,4R)-4-{[5-({4-[(S)-amino(3-chlorophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

[(1R,2S,4R)-4-{[5-({4-[(S)-(3-bromophenyl)(hydroxy)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; or

I-16a [(1R,2S,4R)-4-{[5-({4-[(R)-(3-bromophenyl)(hydroxy)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

	[(1R,2S,4R)-4-{[5-({4-[(R)-(3-bromophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; or
I-16b	[(1R,2S,4R)-4-{[5-({4-[(S)-(3-bromophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
	[(1R,2S,4R)-4-{[5-({4-[(R)-amino(6-bromopyridin-2-yl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-18	[(1R,2S,4R)-4-{[5-({4-[(S)-amino(6-bromopyridin-2-yl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
	[(1R,2S,4R)-4-{[5-({4-[(R)-(5-bromo-2-fluorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-19	[(1R,2S,4R)-4-{[5-({4-[(S)-(5-bromo-2-fluorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
	[(1R,2S,4R)-4-{[5-({4-[(2S)-2-(3-chlorophenyl)tetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-20	[(1R,2S,4R)-4-{[5-({4-[(2R)-2-(3-chlorophenyl)tetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
	[(1R,2S,4R)-4-{[5-({4-[(S)-(5-chloro-2-furyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl
I-21	sulfamate; [(1R,2S,4R)-4-{[5-({4-[(R)-(5-chloro-2-furyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
	[(1R,2S,4R)-4-{[5-({4-[(R)-amino(3-bromophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl
I-22	sulfamate; [(1R,2S,4R)-4-{[5-({4-[(S)-amino(3-bromophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
	[(1R,2R,3S,4R)-4-{[5-({4-[(R)-amino(3-bromophenyl)methyl]-5-chloro-

I-24	2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({4-[(S)-amino(3-bromophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-25	[(1R,2S,4R)-4-{[5-({4-[(S)-amino(6-chloropyridin-2-yl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(R)-amino(6-chloropyridin-2-yl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-26	{(1R,2R,3S,4R)-4-[(5-{[4-(3-bromobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2,3-dihydroxycyclopentyl}methyl sulfamate;
I-27	[(1R,2R,3S,4R)-4-{[5-({4-[(1S)-1-amino-1-(3-bromophenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({4-[(1R)-1-amino-1-(3-bromophenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-28	[(1R,2S,4R)-4-{[5-({4-[(R)-(3-chlorophenyl)sulfinyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(S)-(3-chlorophenyl)sulfinyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-29	[(1R,2S,4R)-4-{[5-({4-[(S)-(6-chloropyridin-2-yl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(R)-(6-chloropyridin-2-yl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-30	{(1R,2S,4R)-4-[(5-{4-[(1S)-1-(3-chlorophenyl)-1-hydroxyethyl]-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate; {(1R,2S,4R)-4-[(5-{4-[(1R)-1-(3-chlorophenyl)-1-hydroxyethyl]-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
	[(1R,2R,3S,4R)-4-{[5-({4-[(2S)-2-(3-chlorophenyl)pyrrolidin-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl

I-31	sulfamate; [(1R,2R,3S,4R)-4-{[5-({4-[(2R)-2-(3-chlorophenyl)pyrrolidin-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-32	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(2S)-2-phenyltetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(2R)-2-phenyltetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-33	[(1R,2S,4R)-4-({5-[4-(3-chlorobenzyl)-5-methyl-2-furoyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-34	[(1R,2S,4R)-4-({5-[4-(3-bromobenzyl)-5-methyl-2-furoyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-35	{(1R,2S,4R)-4-[(5-{[4-(3-chlorobenzyl)-5-(hydroxymethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-36	[(1R,2S,4R)-4-{[5-({4-[(R)-amino(3-chlorophenyl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(S)-amino(3-chlorophenyl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-37	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(4-iodo-1H-pyrazol-1-yl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-38	[(1R,2S,4R)-4-{[5-({4-[(2S)-2-(3-chlorophenyl)pyrrolidin-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(2R)-2-(3-chlorophenyl)pyrrolidin-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-39	[(1R,2S,4R)-4-{[5-({4-[(4-bromo-1H-pyrazol-1-yl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(3-chloro-2-

I-40	fluorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(3-chloro-2-fluorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-41	[(1R,2S,4R)-4-{[5-({4-(3-chlorobenzyl)-5-[(2S)-tetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-(3-chlorobenzyl)-5-[(2R)-tetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-42	{(1R,2S,4R)-4-[(5-{4-[(R)-(3-chlorophenyl)(hydroxy)methyl]-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate; {(1R,2S,4R)-4-[(5-{4-[(S)-(3-chlorophenyl)(hydroxy)methyl]-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-43	{(1R,2S,4R)-4-[(5-{[4-(3-chlorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-44	{(1R,2S,4R)-4-[(5-{[4-(3-chlorobenzyl)-5-(methoxymethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-45	{(1R,2S,4R)-2-hydroxy-4-[(5-{[5-methyl-4-(3-methylbenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-46	[(1R,2S,4R)-4-{[5-({4-[(6-bromopyridin-2-yl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-47	[(1R,2S,4R)-4-{[5-({4-[(R)-(3-chlorophenyl)(methylamino)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(S)-(3-chlorophenyl)(methylamino)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-48	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(5-chloro-2-fluorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(5-chloro-2-fluorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-

2-hydroxycyclopentyl]methyl sulfamate;

I-49 [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-1-(3-chlorophenyl)-1,3-dihydroxypropyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-1-(3-chlorophenyl)-1,3-dihydroxypropyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-50 [(1R,2S,4R)-4-{[5-({4-[(S)-(3-chlorophenyl)(cyclopropyl)hydroxymethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
[(1R,2S,4R)-4-{[5-({4-[(R)-(3-chlorophenyl)(cyclopropyl)hydroxymethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-51 {(1R,2S,4R)-4-[(5-{[4-(3-chlorobenzyl)-5-methyl-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;

I-52 {(1R,2S,4R)-4-[(5-{[4-(3-bromobenzyl)-5-methyl-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;

I-53 [(1R,2S,4R)-4-{[5-({4-[(6-bromopyridin-2-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-54 [(1R,2S,4R)-4-{[5-({4-[(1S)-1-(6-bromopyridin-2-yl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
[(1R,2S,4R)-4-{[5-({4-[(1R)-1-(6-bromopyridin-2-yl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-55 [(1R,2S,4R)-4-{[5-({4-[(4-chloro-1H-pyrazol-1-yl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-56 [(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-hydroxy(phenyl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
[(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-hydroxy(phenyl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl

sulfamate;

I-57	[(1R,2S,4R)-2-hydroxy-4-({5-[4-(3-methylbenzyl)-2-furoyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-58	{(1R,2S,4R)-2-hydroxy-4-[(5-{4-[(1S)-1-hydroxy-1-phenylethyl]-2-furoyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate; {(1R,2S,4R)-2-hydroxy-4-[(5-{4-[(1R)-1-hydroxy-1-phenylethyl]-2-furoyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-59	{(1R,2S,4R)-4-[(5-{[4-(3-bromobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-60	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(3-methylbenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-61	{(1R,2S,4R)-4-[(5-{[4-(3-chloro-4-fluorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-62	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(3-iodobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-63	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(5-chloro-2-methoxyphenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(5-chloro-2-methoxyphenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-64	[(1R,2R,3R,4R)-4-({5-[4-(3-bromobenzyl)-5-methyl-2-furoyl]pyrimidin-4-yl}amino)-3-fluoro-2-hydroxycyclopentyl]methyl sulfamate;
I-65	[(1R,2R,3R,4R)-3-fluoro-2-hydroxy-4-({5-[5-methyl-4-(3-methylbenzyl)-2-furoyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-66	[(1R,2S,4R)-4-{[5-({4-[(5-chloro-2-furyl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-67	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(2R)-2-(3-chlorophenyl)oxetan-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(2S)-2-(3-chlorophenyl)oxetan-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl

	sulfamate;
I-68	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(R)-phenylsulfinyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(S)-phenylsulfinyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-69	[(1R,2S,4R)-2-hydroxy-4-({5-[(5-methyl-4-{(R)-[3-(trifluoromethyl)phenyl]sulfinyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-({5-[(5-methyl-4-{(S)-[3-(trifluoromethyl)phenyl]sulfinyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-70	{(1R,2S,4R)-4-[(5-{[4-(3-ethynylbenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-71	[(1R,2S,4R)-4-{[5-({4-[(6-chloropyridin-2-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-72	[(1R,2S,4R)-4-({5-[5-chloro-4-(3-chlorobenzyl)-2-furoyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-73	[(1R,2S,4R)-4-{[5-({4-[(R)-(3-bromophenyl)(methoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(S)-(3-bromophenyl)(methoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-74	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(4-methyl-1H-pyrazol-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-75	[(1R,2R,3R,4R)-4-({5-[4-(3-chlorobenzyl)-5-methyl-2-furoyl]pyrimidin-4-yl}amino)-3-fluoro-2-hydroxycyclopentyl]methyl sulfamate;
I-76	{(1R,2R,3S,4R)-4-[(5-{[4-(3-bromobenzyl)-5-chloro-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2,3-dihydroxycyclopentyl}methyl sulfamate;
I-77	[(1R,2S,4R)-4-{[5-({4-(3-chlorobenzyl)-5-[(dimethylamino)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-78	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(4-methyl-1H-pyrazol-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-79	[(1R,2S,4R)-4-({5-[4-(3-chlorobenzyl)-2-furoyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-80	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(2-methoxyphenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-81	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[3-(methylsulfanyl)benzyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-82	[(1R,2S,4R)-4-({5-[5-(3-bromobenzyl)-2-furoyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-83	[(1R,2S,4R)-4-{[5-({4-[(6-chloro-2,3-dihydro-1H-indol-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-84	{(1R,2S,4R)-4-[(5-{[4-(3-chloro-2-fluorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-85	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-hydroxy(2-methoxyphenyl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-hydroxy(2-methoxyphenyl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-86	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(2-chlorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(2-chlorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-87	[(1R,2R,3S,4R)-4-{[5-(5-benzyl-2-furoyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-88	[(1R,2S,4R)-4-({5-[(4-benzyl-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;

I-89	{(1R,2S,4R)-4-[(5-{[4-(3-chlorobenzyl)-5-fluoro-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-90	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(3-chlorophenyl)(methoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(3-chlorophenyl)(methoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-91	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(phenoxymethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-92	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(1H-pyrrolo[2,3-b]pyridin-1-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-93	[(1R,2S,4R)-4-({5-[5-(3-chlorobenzyl)-2-furoyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-94	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(3-chlorophenyl)sulfinyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(3-chlorophenyl)sulfinyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-95	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(3-chlorophenyl)(methylamino)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(3-chlorophenyl)(methylamino)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-96	[(1R,2S,4R)-4-({5-[(4-benzyl-5-chloro-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-97	{(1R,2S,4R)-4-[(5-{[4-(3-fluorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-98	[(1R,2S,4R)-4-{[5-({4-[(2-bromophenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl

sulfamate;

I-99	{(1R,2R,3R,4R)-3-fluoro-2-hydroxy-4-[(5-{[4-(3-iodobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-100	[(1R,2S,4R)-4-{[5-({4-[1-(3-chlorophenyl)vinyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-101	{(1R,2R,3R,4R)-4-[(5-{[4-(3-bromobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-3-fluoro-2-hydroxycyclopentyl}methyl sulfamate;
I-102	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-1-(3-chlorophenyl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-1-(3-chlorophenyl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
i-103	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(5-chloro-2-thienyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(5-chloro-2-thienyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-104	{(1R,2S,4R)-4-[(5-{[4-(3,4-dichlorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-105	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(3-methyl-1H-indol-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-106	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1R)-1-phenylethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1S)-1-phenylethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-107	{(1R,2S,4R)-4-[(5-{[5-chloro-4-(3-chlorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-108	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(2-phenylethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;

I-109	{(1R,2S,4R)-2-hydroxy-4-[(5-{[5-methyl-4-(1H-pyrazol-1-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-110	{(1R,2S,4R)-4-[(5-{[4-(3-chlorobenzyl)-5-(tetrahydro-2H-pyran-4-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-111	{(1R,2S,4R)-4-[(5-{[4-(3-ethylbenzyl)-5-methyl-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-112	{(1R,2S,4R)-4-[(5-{[4-(3-bromobenzyl)-5-chloro-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-113	[(1R,2S,4R)-4-{[5-({4-[3-(difluoromethoxy)benzyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-114	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(1H-indol-1-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-115	[(1R,2R,3S,4R)-4-({5-[(5-benzyl-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-116	[(1R,2S,4R)-4-{[5-({4-[(2S)-2-(cyclohex-1-en-1-yl)tetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(2R)-2-(cyclohex-1-en-1-yl)tetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-117	[(1R,2S,4R)-4-{[5-({4-[(1S)-1-(3-chlorophenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1R)-1-(3-chlorophenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-118	{(1R,2S,4R)-4-[(5-{[5-bromo-4-(3-chlorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;

I-119	[(1R,2S,4R)-2-hydroxy-4-({5-[(4-{[5-(trifluoromethyl)-2-furyl]methyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-120	[(1R,2S,4R)-4-{[5-({4-[(3-chlorophenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-121	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(2S)-2-phenyltetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(2R)-2-phenyltetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-122	[(1R,2S,4R)-4-({5-[(5-chloro-4-{(R)-[3-(trifluoromethyl)phenyl]sulfinyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-({5-[(5-chloro-4-{(S)-[3-(trifluoromethyl)phenyl]sulfinyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-123	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(3-methoxybenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-124	[(1R,2S,4R)-4-{[5-({4-[(2-cyanophenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-125	[(1R,2S,4R)-4-{[5-({4-[(6-chloro-1H-indol-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-126	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(6-methoxy-2,3-dihydro-1H-indol-1-yl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-127	[(1R,2S,4R)-4-{[5-(5-benzyl-2-furoyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-128	[(1R,2S,4R)-4-{[5-({4-[(6-cyano-2,3-dihydro-1H-indol-1-yl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-129	[(1R,2S,4R)-4-{[5-({4-[(2-chlorophenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-130	[(1R,2S,4R)-2-hydroxy-4-({5-[(4-{[4-(trifluoromethyl)-1H-pyrazol-1-yl]methyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-131	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(2-methylphenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-132	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(6-methyl-1H-indol-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-134	[(1R,2R,3S,4R)-2,3-dihydroxy-4-{[5-(5-phenyl-2-furoyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-135	[(1R,2S,4R)-4-{[5-({4-[(1R)-1-(3-chlorophenyl)ethyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-1-(3-chlorophenyl)ethyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-136	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-1-hydroxy-2-phenylethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-1-hydroxy-2-phenylethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-137	{(1R,2S,4R)-2-hydroxy-4-[(5-{[5-methyl-4-(phenylsulfanyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-138	[(1R,2S,4R)-4-({5-[(4-{[(3-chlorophenyl)(methyl)amino]methyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-139	[(1R,2S,4R)-4-{[5-(4,5-dibenzyl-2-furoyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-140	{(1R,2S,4R)-4-[(5-{[4-(cyclohex-1-en-1-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl

	sulfamate;
I-141	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-1-hydroxy-2-methylprop-2-en-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-1-hydroxy-2-methylprop-2-en-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-142	{(1R,2S,4R)-4-[(5-{[5-(3-chlorobenzyl)-4-(hydroxymethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-143	[(1R,2S,4R)-4-{[5-({4-[(3-chlorophenyl)sulfanyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-144	[(1R,2S,4R)-4-({5-[(4,5-dibenzyl-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-145	[(1R,2S,4R)-2-hydroxy-4-({5-[(5-methyl-4-{[3-(trifluoromethyl)phenyl]sulfanyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-146	[(1R,2S,4R)-4-{[5-({4-[2-(3-chlorophenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-147	[(1R,2S,4R)-4-({5-[(4-{[(2-chlorophenyl)sulfanyl]methyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-148	[(1R,2S,4R)-4-{[5-({4-[(4-bromo-2-cyano-1H-pyrrol-1-yl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-149	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(2,5-dichlorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(2,5-dichlorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-150	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-3-cyclopropyl-1-hydroxyprop-2-yn-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-3-cyclopropyl-1-hydroxyprop-2-yn-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-152	[(1R,2S,4R)-4-{[5-({5-[(1R)-1-(3-chlorophenyl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-[(1S)-1-(3-chlorophenyl)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-153	[(1R,2S,4R)-4-{[5-({4-[(R)-(3-chlorophenyl)(dimethylamino)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(S)-(3-chlorophenyl)(dimethylamino)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-154	[(1R,2S,4R)-4-{[5-({4-[(2R)-2-(3-chlorophenyl)tetrahydro-2H-pyran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(2S)-2-(3-chlorophenyl)tetrahydro-2H-pyran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-155	{(1R,2S,4R)-4-[(5-{[4-(2,3-dichlorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-156	[(1R,2S,4R)-4-{[5-({4-[(2-ethoxyphenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-157	{(1R,2S,4R)-4-[(5-{[4-(4-chlorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-158	[(1R,2R,3S,4R)-4-({5-[5-(2-chlorophenyl)-2-furoyl]pyrimidin-4-yl}amino)-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-159	[(1R,2S,4R)-4-{[5-({4-[(5-chloro-2,3-dihydro-1H-indol-1-yl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-160	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(3-methyl-1H-pyrazolo[3,4-c]pyridin-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-161	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(2-iodophenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-162	[(1R,2R,3R,4R)-4-({5-[(4-benzyl-5-chloro-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-3-fluoro-2-hydroxycyclopentyl]methyl sulfamate;
I-163	[(1R,2S,4R)-4-{[5-({4-[(4-chlorophenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-164	[(1R,2S,4R)-4-{[5-({4-[1-(3-bromophenyl)vinyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-165	{(1R,2S,4R)-4-[(5-{[4-(2-chlorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-166	[(1R,2S,4R)-4-{[5-({4-[(2S)-2-cyclohexyltetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(2R)-2-cyclohexyltetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-167	{(1R,2S,4R)-4-[(5-{[4-(3,4-dihydroisoquinolin-2(1H)-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-168	{(1R,2S,4R)-4-[(5-{[4-(6,7-dihydrothieno[3,2-c]pyridin-5(4H)-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-169	[(1R,2S,4R)-4-{[5-({4-[(6-cyano-1H-indol-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-170	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(3-methyl-1H-pyrrol-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;

I-171	{(1R,2S,4R)-4-[(5-{[4-(2,3-dihydro-1H-pyrrolo[2,3-b]pyridin-1-ylmethyl)-5-methyl-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-172	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-cyclohexyl(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-cyclohexyl(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-173	{(1R,2S,4R)-4-[(5-{[4-(3,6-dihydro-2H-thiopyran-4-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-174	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-hydroxy(tetrahydro-2H-pyran-4-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-175	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(3-chlorophenyl)sulfanyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-176	[(1R,2S,4R)-2-hydroxy-4-({5-[(4-{[2-(trifluoromethoxy)phenoxy]methyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-177	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(phenylsulfanyl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-178	[(1R,2S,4R)-4-{[5-({4-[2-(4-chlorophenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-179	{(1R,2S,4R)-4-[(5-{[4-(3-chlorobenzyl)-5-cyano-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-180	[(1R,2S,4R)-4-{[5-({4-[(2,3-dichlorophenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl

sulfamate;

I-181 [(1R,2S,4R)-4-{[5-({4-[(3-chlorophenyl)sulfonyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-182 [(1R,2S,4R)-4-{[5-({4-[(2-ethylphenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-183 [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[2-(2-methoxyphenyl)ethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;

I-184 [(1R,2S,4R)-2-hydroxy-4-({5-[(4-{[6-(trifluoromethyl)-1H-indol-1-yl]methyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;

I-185 {(1R,2S,4R)-4-[(5-{[4-(3-cyanobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;

I-186 {(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(1H-pyrrolo[2,3-c]pyridin-1-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;

I-187 {(1R,2S,4R)-4-[(5-{[4-(1,3-dihydro-2H-isoindol-2-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;

I-188 [(1R,2S,4R)-2-hydroxy-4-({5-[(4-{[2-(trifluoromethyl)phenoxy]methyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;

I-189 [(1R,2S,4R)-4-({5-[(5-chloro-4-{[3-(trifluoromethyl)phenyl]sulfanyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;

I-190 {(1R,2S,4R)-4-[(5-{[4-(5,6-dihydroimidazo[1,2-a]pyrazin-7(8H)-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;

I-191 [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(2-isopropylphenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;

{(1R,2S,4R)-4-[(5-{[4-(1H-benzimidazol-1-ylmethyl)-2-

I-192	thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-193	{(1R,2S,4R)-4-[(5-{[4-(2,5-dihydrofuran-3-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-194	[(1R,2S,4R)-4-{[5-({4-[(3-cyano-1H-pyrrol-1-yl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-195	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-1-hydroxy-2-methylpropyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-1-hydroxy-2-methylpropyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-196	{(1R,2S,4R)-4-[(5-{[4-(3,6-dihydro-2H-pyran-4-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-197	{(1R,2S,4R)-2-hydroxy-4-[(5-{4-[(1S)-1-hydroxy-2-methylprop-2-en-1-yl]-2-furoyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate; {(1R,2S,4R)-2-hydroxy-4-[(5-{4-[(1R)-1-hydroxy-2-methylprop-2-en-1-yl]-2-furoyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-199	{(1R,2S,4R)-4-[(5-{[4-(cyclohexylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-200	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(phenylsulfonyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-201	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(2-isopropoxyphenoxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-202	{(1R,2R,3S,4R)-2,3-dihydroxy-4-[(5-{[5-(2-hydroxypropan-2-yl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-203	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(3-chlorophenyl)sulfonyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-204	{(1R,2S,4R)-4-[(5-{[4-(3,6-dihydropyridin-1(2H)-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-205	{(1R,2R,3R,4R)-4-[(5-{[5-(3-chlorobenzyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-3-fluoro-2-hydroxycyclopentyl}methyl sulfamate;
I-206	[(1R,2S,4R)-2-hydroxy-4-({5-[5-(hydroxymethyl)-2-furoyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-207	{(1R,2S,4R)-4-[(5-{[5-chloro-4-(3-chlorobenzoyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-208	[(1R,2S,4R)-4-{[5-(4-benzoyl-2-furoyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-209	{(1R,2S,4R)-4-[(5-{[(2S)-2-(3-chlorophenyl)-2,3,4,5-tetrahydro-2,3'-bithiophen-5'-yl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate; {(1R,2S,4R)-4-[(5-{[(2R)-2-(3-chlorophenyl)-2,3,4,5-tetrahydro-2,3'-bithiophen-5'-yl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-210	[(1R,2S,4R)-4-{[5-({4-[(5-chloropyridin-3-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-211	{(1R,2S,4R)-4-[(5-{[5-chloro-4-(hydroxymethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-212	[(1R,2S,4R)-2-hydroxy-4-({5-[5-(methoxymethyl)-2-furoyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-215	[(1R,2S,4R)-4-({5-[(4-benzoyl-5-chloro-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-216	[(1R,2S,4R)-2-hydroxy-4-({5-[4-(hydroxymethyl)-2-furoyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-217	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(methoxymethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;

I-218	{(1R,2S,4R)-4-[(5-{[5-chloro-4-(methoxymethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-219	{(1R,2S,4R)-4-[(5-{[4-(2,5-dihydro-1H-pyrrol-1-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-220	[(1R,2S,4R)-2-hydroxy-4-({5-[4-(2-hydroxypropan-2-yl)-2-furoyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-221	{(1R,2S,4R)-4-[(5-{[4-({3-[(dimethylamino)methyl]-1H-indol-1-yl}methyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-222	[(1R,2S,4R)-4-{[5-({4-[(benzylamino)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-223	[(1R,2S,4R)-2-hydroxy-4-({5-[4-(methoxymethyl)-2-furoyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-224	[(1R,2S,4R)-4-{[5-({4-[(3,3-difluoropiperidin-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-225	[(1R,2S,4R)-2-hydroxy-4-({5-[(4-{[(3R)-3-methylpiperidin-1-yl]methyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-({5-[(4-{[(3S)-3-methylpiperidin-1-yl]methyl}-2-thienyl)carbonyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;
I-226	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-1-hydroxyethyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-227	[(1R,2S,4R)-4-{[5-({4-[(2S)-2-(3-chlorophenyl)-1-methylpyrrolidin-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(2R)-2-(3-chlorophenyl)-1-methylpyrrolidin-2-yl]-

	2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-228	[(1R,2S,4R)-4-{[5-({4-[(3,3-difluoropyrrolidin-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-229	[(1R,2S,4R)-4-({5-[(4-acetyl-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-230	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(hydroxymethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-231	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(1H-imidazol-1-ylmethyl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-233	{(1R,2S,4R)-4-[(5-{[5-(3-chlorobenzyl)-3-methyl-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-234	[(1R,2S,4R)-4-{[5-(4-acetyl-2-furoyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-235	{(1R,2S,4R)-2-hydroxy-4-[(5-{[5-(2-hydroxypropan-2-yl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-236	[(1R,2R,3S,4R)-4-{[2-chloro-5-(5-phenyl-2-furoyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-237	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(5-methyl-2-furyl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-238	[(1R,2S,4R)-4-{[5-({4-[(2S)-2-cyclopropyltetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(2R)-2-cyclopropyltetrahydrofuran-2-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-239	[(1R,2S,4R)-2-hydroxy-4-({5-[5-(phenylsulfonyl)-2-furoyl]pyrimidin-4-yl}amino)cyclopentyl]methyl sulfamate;

I-240	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(2-hydroxypropan-2-yl)-2-thienyl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-241	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(4-phenylpiperazin-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-242	[(1R,2S,4R)-4-({5-[(4-acetyl-5-chloro-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-243	[(1R,2S,4R)-4-{[5-({4-[(4-bromo-1H-imidazol-1-yl)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-247	[(1R,2R,3S,4R)-4-{[5-({4-[(1R)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({4-[(1S)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-248	[(1R,2S,4R)-4-{[5-({4-[(1S)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1R)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-249	[(1R,2R,3S,4R)-4-{[5-({5-chloro-4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({5-chloro-4-[(1S)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-250	[(1R,2R,3S,4R)-4-{[5-({4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({4-[(1S)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-251	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-

	hydroxycyclopentyl]methyl sulfamate;
I-252	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-ethynyl-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-ethynyl-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-253	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(8S)-2-chloro-5,6,7,8-tetrahydro-1,7-naphthyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(8R)-2-chloro-5,6,7,8-tetrahydro-1,7-naphthyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-254	[(1R,2S,4R)-4-{[5-({4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-255	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-256	[(1R,2S,4R)-4-{[5-({4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-257	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-258	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(1R)-7-(trifluoromethyl)-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(1S)-7-(trifluoromethyl)-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-259	[(1R,2R,3S,4R)-4-{[5-({4-[(1R)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({4-[(1S)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-260	[(1R,2S,4R)-4-{[5-({4-[(8R)-2-chloro-5,5-difluoro-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(8S)-2-chloro-5,5-difluoro-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-261	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-262	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-6-chloro-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-6-chloro-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-263	[(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
	[(1R,2R,3R,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-3-fluoro-2-

I-264	hydroxycyclopentyl]methyl sulfamate; [(1R,2R,3R,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-3-fluoro-2-hydroxycyclopentyl]methyl sulfamate;
I-265	[(1R,2S,4R)-4-{[5-({4-[(1R)-6-chloro-2-methyl-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-6-chloro-2-methyl-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-266	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(8S)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(8R)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-267	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-fluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-fluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-268	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-bromo-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-bromo-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-269	[(1R,2S,4R)-4-{[5-({4-[(7S)-4,7-dihydro-5H-thieno[2,3-c]pyran-7-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(7R)-4,7-dihydro-5H-thieno[2,3-c]pyran-7-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-270	{(1R,2S,4R)-4-[(5-{4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate; {(1R,2S,4R)-4-[(5-{4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-

	methyl-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-271	[(1R,2R,3R,4R)-4-{[5-({4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-3-fluoro-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2R,3R,4R)-4-{[5-({4-[(1S)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-3-fluoro-2-hydroxycyclopentyl]methyl sulfamate;
I-272	{(1R,2S,4R)-4-[(5-{4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate; {(1R,2S,4R)-4-[(5-{4-[(1S)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-273	[(1R,2S,4R)-4-{[5-({4-[(1R)-6,7-difluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-6,7-difluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-274	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-275	[(1R,2S,4R)-4-{[5-({4-[(4S)-6,7-dihydro-4H-thieno[3,2-c]pyran-4-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(4R)-6,7-dihydro-4H-thieno[3,2-c]pyran-4-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-276	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(8S)-2-chloro-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(8R)-2-chloro-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-cyclopropyl-3,4-dihydro-1H-isochromen-

I-277	1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-cyclopropyl-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-278	[(1R,2R,3S,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isothiochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-isothiochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-279	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-280	[(1R,2S,4R)-4-{[5-({4-[(4R)-4H-1,3-benzodioxin-4-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(4S)-4H-1,3-benzodioxin-4-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-281	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1'R)-1'H-spiro[cyclopropane-1,4'-isochromen]-1'-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1'S)-1'H-spiro[cyclopropane-1,4'-isochromen]-1'-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-282	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-283	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1R)-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;

	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1S)-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-284	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-6-chloro-2-methyl-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-6-chloro-2-methyl-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-285	[(1R,2S,4R)-4-{[5-({4-[(8S)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(8R)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-286	[(1R,2S,4R)-4-{[5-({4-[(8S)-2-chloro-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(8R)-2-chloro-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-287	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(4S)-2-methyl-6,7-dihydro-4H-pyrano[3,4-d][1,3]thiazol-4-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(4R)-2-methyl-6,7-dihydro-4H-pyrano[3,4-d][1,3]thiazol-4-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-288	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-4,4-difluoro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-4,4-difluoro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-289	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-4,4-difluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-4,4-difluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-290	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-6,7-difluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-6,7-difluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-291	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8S)-2-methyl-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8R)-2-methyl-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-292	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(1S)-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(1R)-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-293	[(1R,2S,4R)-4-{[5-({4-[(1R)-4,4-difluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-4,4-difluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-294	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-7-fluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-7-fluoro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-295	[(1R,2R,3S,4R)-2,3-dihydroxy-4-{[5-({4-[(1S)-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-2,3-dihydroxy-4-{[5-({4-[(1R)-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8S)-3-methyl-5,6-dihydro-

I-296	8H-imidazo[2,1-c][1,4]oxazin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8R)-3-methyl-5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-297	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8S)-2-(trifluoromethyl)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8R)-2-(trifluoromethyl)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-298	[(1R,2S,4R)-4-{[5-({4-[(4R)-2-chloro-6,7-dihydro-4H-furo[3,2-c]pyran-4-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(4S)-2-chloro-6,7-dihydro-4H-furo[3,2-c]pyran-4-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-299	{(1R,2S,4R)-4-[(5-{5-chloro-4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate; {(1R,2S,4R)-4-[(5-{5-chloro-4-[(1S)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-300	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-1,3-thiazol-2-yl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-1,3-thiazol-2-yl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-301	[(1R,2S,4R)-4-{[5-({4-[(1R)-5-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-5-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-302	[(1R,2R,3S,4R)-4-{[5-({5-chloro-4-[(1S)-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate; [(1R,2R,3S,4R)-4-{[5-({5-chloro-4-[(1R)-1,2,3,4-tetrahydroisoquinolin-

	1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-303	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-8-fluoro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-8-fluoro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-304	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-2-methyl-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-2-methyl-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-305	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(4S)-2-methyl-6,7-dihydro-4H-pyrano[4,3-d][1,3]thiazol-4-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(4R)-2-methyl-6,7-dihydro-4H-pyrano[4,3-d][1,3]thiazol-4-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-306	[(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-2-methyl-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-2-methyl-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-307	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-2-methyl-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-2-methyl-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-308	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1R)-2-methyl-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1S)-2-methyl-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;

I-309	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8S)-2-methyl-5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8R)-2-methyl-5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-310	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-6-chloro-1,3-dihydro-2-benzofuran-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-6-chloro-1,3-dihydro-2-benzofuran-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-311	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-7-chloro-2-methyl-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-7-chloro-2-methyl-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-313	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-cyano-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-cyano-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-314	[(1R,2S,4R)-4-{[5-({4-[(1R)-8-chloro-1,3,4,5-tetrahydro-2-benzoxepin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-8-chloro-1,3,4,5-tetrahydro-2-benzoxepin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-315	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(4S)-2-(trifluoromethyl)-6,7-dihydro-4H-pyrano[3,4-d][1,3]thiazol-4-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(4R)-2-(trifluoromethyl)-6,7-dihydro-4H-pyrano[3,4-d][1,3]thiazol-4-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-pyrano[4,3-c]pyridin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-

I-316	hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-pyrano[4,3-c]pyridin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-317	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1-methyl-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-1-methyl-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-318	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1R)-1-methyl-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1S)-1-methyl-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-319	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-2,3,4,5-tetrahydro-1H-2-benzazepin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-2,3,4,5-tetrahydro-1H-2-benzazepin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-320	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isothiochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-isothiochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-321	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1-methyl-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-1-methyl-1,2,3,4-tetrahydroisoquinolin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-322	[(1R,2S,4R)-4-{[5-({4-[(1R)-5-chloro-2-methyl-2,3-dihydro-1H-isoindol-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-5-chloro-2-methyl-2,3-dihydro-1H-isoindol-

	1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-323	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-7-chloro-3,4-dihydro-1H-pyrano[4,3-c]pyridin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-7-chloro-3,4-dihydro-1H-pyrano[4,3-c]pyridin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-324	[(1R,2S,4R)-4-{[5-({5-cyano-4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-cyano-4-[(1S)-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-325	[(1R,2S,4R)-4-{[5-({5-[(1R)-5-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-[(1S)-5-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-327	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-6-chloro-3-oxo-1,3-dihydro-2-benzofuran-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-6-chloro-3-oxo-1,3-dihydro-2-benzofuran-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-329	[(1R,2S,4R)-4-({5-[(4-{(1R)-7-[(dimethylamino)methyl]-3,4-dihydro-1H-isochromen-1-yl}-5-methyl-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-({5-[(4-{(1S)-7-[(dimethylamino)methyl]-3,4-dihydro-1H-isochromen-1-yl}-5-methyl-2-thienyl)carbonyl]pyrimidin-4-yl}amino)-2-hydroxycyclopentyl]methyl sulfamate;
I-330	(1S,2R,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-[(sulfamoyloxy)methyl]cyclopentyl aminoacetate
	[(1R,2S,4R)-4-{[5-({4-[(5R)-8,8-difluoro-7,8-dihydro-5H-pyrano[4,3-b]pyridin-5-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-

I-331	hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(5S)-8,8-difluoro-7,8-dihydro-5H-pyrano[4,3-b]pyridin-5-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-332	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(4S)-2-methyl-6,7-dihydro-4H-pyrazolo[5,1-c][1,4]oxazin-4-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(4R)-2-methyl-6,7-dihydro-4H-pyrazolo[5,1-c][1,4]oxazin-4-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-333	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(4S)-3-methyl-6,7-dihydro-4H-pyrazolo[5,1-c][1,4]oxazin-4-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(4R)-3-methyl-6,7-dihydro-4H-pyrazolo[5,1-c][1,4]oxazin-4-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-334	tert-butyl (1R)-7-chloro-1-(5-{[4-({(1R,3S,4R)-3-hydroxy-4-[(sulfamoyloxy)methyl]cyclopentyl}amino)pyrimidin-5-yl]carbonyl}-3-thienyl)-3,4-dihydroisoquinoline-2(1H)-carboxylate; tert-butyl (1S)-7-chloro-1-(5-{[4-({(1R,3S,4R)-3-hydroxy-4-[(sulfamoyloxy)methyl]cyclopentyl}amino)pyrimidin-5-yl]carbonyl}-3-thienyl)-3,4-dihydroisoquinoline-2(1H)-carboxylate;
I-335	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1,2,3,4-tetrahydronaphthalen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-1,2,3,4-tetrahydronaphthalen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-336	tert-butyl (1R)-7-chloro-1-(2-chloro-5-{[4-({(1R,3S,4R)-3-hydroxy-4-[(sulfamoyloxy)methyl]cyclopentyl}amino)pyrimidin-5-yl]carbonyl}-3-thienyl)-3,4-dihydroisoquinoline-2(1H)-carboxylate; tert-butyl (1S)-7-chloro-1-(2-chloro-5-{[4-({(1R,3S,4R)-3-hydroxy-4-[(sulfamoyloxy)methyl]cyclopentyl}amino)pyrimidin-5-yl]carbonyl}-3-thienyl)-3,4-dihydroisoquinoline-2(1H)-carboxylate;
I-337	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8S)-2-(trifluoromethyl)-5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8R)-2-(trifluoromethyl)-5,6-

	dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-338	(1S,2R,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-[(sulfamoyloxy)methyl]cyclopentyl (2S)-2-amino-3-methylbutanoate;
I-339	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(8S)-2-methoxy-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(8R)-2-methoxy-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-341	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1R)-7-methoxy-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1S)-7-methoxy-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-342	[(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1R)-4-oxo-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({4-[(1S)-4-oxo-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-343	[(1R,2S,4R)-4-{[5-({5-[(1R)-8-chloro-1,3,4,5-tetrahydro-2-benzoxepin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({5-[(1S)-8-chloro-1,3,4,5-tetrahydro-2-benzoxepin-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-344	[(1R,2S,4R)-4-{[5-({4-[(1S)-3,4-dihydro-1H-[1,4]oxazino[4,3-a]benzimidazol-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1R)-3,4-dihydro-1H-[1,4]oxazino[4,3-a]benzimidazol-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-345	(1S,2R,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-

	[(sulfamoyloxy)methyl]cyclopentyl 3-[(phosphonooxy)methyl]benzoate;
I-346	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-ethyl-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-7-ethyl-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-347	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(1R)-7-methyl-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(1S)-7-methyl-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-348	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8R)-2-(pyrrolidin-1-yl)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate; [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(8S)-2-(pyrrolidin-1-yl)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate;
I-349	[(1R,2S,4R)-4-{[5-({4-[(1R)-6-chloro-2,3-dihydro-1H-inden-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(1S)-6-chloro-2,3-dihydro-1H-inden-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-350	[(1R,2R,3S,4R)-4-({5-[(5-benzyl-1,3-thiazol-2-yl)carbonyl]pyrimidin-4-yl}amino)-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-351	{(1R,2S,4R)-2-hydroxy-4-[(5-{[4-(3-methylbenzyl)-1,3-thiazol-2-yl]carbonyl}pyrimidin-4-yl)amino]cyclopentyl}methyl sulfamate;
I-352	{(1R,2R,3S,4R)-4-[(5-{[4-(3-chlorobenzyl)-5-methyl-1,3-thiazol-2-yl]carbonyl}pyrimidin-4-yl)amino]-2,3-dihydroxycyclopentyl}methyl sulfamate;
I-353	{(1R,2S,4R)-4-[(5-{[4-(3-chlorobenzyl)-5-methyl-1,3-thiazol-2-yl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;

I-354	{(1R,2R,3S,4R)-4-[(5-{[4-(3-bromobenzyl)-5-methyl-1,3-thiazol-2-yl]carbonyl}pyrimidin-4-yl)amino]-2,3-dihydroxycyclopentyl}methyl sulfamate;
I-355	[(1R,2S,4R)-4-{[5-({4-[(R)-(3-chlorophenyl)(hydroxy)methyl]-5-methyl-1,3-thiazol-2-yl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; [(1R,2S,4R)-4-{[5-({4-[(S)-(3-chlorophenyl)(hydroxy)methyl]-5-methyl-1,3-thiazol-2-yl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

and pharmaceutically acceptable salts thereof.

39. The chemical entity of claim 1, wherein the chemical entity is chosen from:

I-356	[(1R,2S,4R)-4-{[5-({4-[(8R)-2,3-dimethyl-5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate and [(1R,2S,4R)-4-{[5-({4-[(8~~R~~S)-2,3-dimethyl-5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-356a	[(1R,2S,4R)-4-{[5-({4-[(8R)-2,3-dimethyl-5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(8~~R~~S)-2,3-dimethyl-5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-356b	[(1R,2S,4R)-4-{[5-({4-[(8R)-2,3-dimethyl-5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(8~~R~~S)-2,3-dimethyl-5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-357	[(1R,2S,4R)-4-{[5-({4-[(1R)-6-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate and [(1R,2S,4R)-4-{[5-({4-[(1S)-6-chloro-3,4-dihydro-1H-isochromen-1-yl]-

	2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-359a	[(1R,2S,4R)-4-{[5-({4-[(1R)-6-chloro-1,3-dihydro-2-benzothiophen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(1S)-6-chloro-1,3-dihydro-2-benzothiophen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-359b	[(1R,2S,4R)-4-{[5-({4-[(1R)-6-chloro-1,3-dihydro-2-benzothiophen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(1S)-6-chloro-1,3-dihydro-2-benzothiophen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-360	{(1R,2S,4R)-4-[(5-{[4-(7-chloro-3,4-dihydroisoquinolin-1-yl)-5-methyl-2-thienyl]carbonyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-361	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-(difluoromethyl)-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate and [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-(difluoromethyl)-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-362	(1S,2R,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-[(sulfamoyloxy)methyl]cyclopentyl (2S)-2-aminopropanoate;
I-363	(1S,2R,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-[(sulfamoyloxy)methyl]cyclopentyl (2S,3S)-2-amino-3-methylpentanoate;
I-364	(1S,2R,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-[(sulfamoyloxy)methyl]cyclopentyl [4-(phosphonooxy)phenyl]acetate;

I-365	[(1R,2S,4R)-4-{[5-({4-[(1R)-8-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate and [(1R,2S,4R)-4-{[5-({4-[(1S)-8-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-366	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-(hydroxymethyl)-2-thienyl}carbonyl)pyrimidin-4-yl](methyl)amino}-2-hydroxycyclopentyl]methyl sulfamate and [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-(hydroxymethyl)-2-thienyl}carbonyl)pyrimidin-4-yl](methyl)amino}-2-hydroxycyclopentyl]methyl sulfamate;

and pharmaceutically acceptable salts thereof.

40. A pharmaceutical composition comprising the chemical entity of claim 1 and a pharmaceutically acceptable carrier.

41. A pharmaceutical composition comprising the chemical entity of claim 39 and a pharmaceutically acceptable carrier.

42. A chemical entity which is chosen from:

I-16a	[(1R,2S,4R)-4-{[5-({4-[(S)-(3-bromophenyl)(hydroxy)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(R)-(3-bromophenyl)(hydroxy)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-18b	[(1R,2S,4R)-4-{[5-({4-[(R)-amino(6-bromopyridin-2-yl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(S)-amino(6-bromopyridin-2-yl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-22b	[(1R,2S,4R)-4-{[5-({4-[(R)-amino(3-bromophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(S)-amino(3-bromophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-248a	[(1R,2S,4R)-4-{[5-({4-[(1S)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(1R)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-24a	[(1R,2R,3S,4R)-4-{[5-({4-[(R)-amino(3-bromophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate or [(1R,2R,3S,4R)-4-{[5-({4-[(S)-amino(3-bromophenyl)methyl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-251a	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(1S)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-252b	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-ethynyl-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(1S)-7-ethynyl-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-253a	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(8S)-2-chloro-5,6,7,8-tetrahydro-1,7-naphthyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({5-chloro-4-[(8R)-2-chloro-5,6,7,8-tetrahydro-1,7-

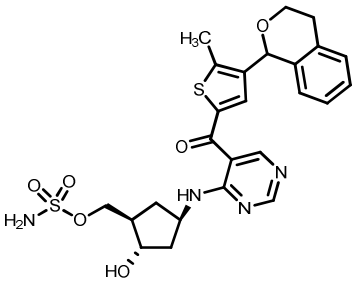
	naphthyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-254b	[(1R,2S,4R)-4-{[5-({4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(1S)-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-255b	[(1R,2S,4R)-4-[[5-[4-[(1R)-7-Chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-thiophene-2-carbonyl]pyrimidin-4-yl]amino]-2-hydroxy-cyclopentyl]methyl sulfamate;
I-256b	[(1R,2S,4R)-4-{[5-({4-[(1R)-3,4-Dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-257b	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-Chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-258a	[(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(1R)-7-(trifluoromethyl)-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate or [(1R,2S,4R)-2-hydroxy-4-{[5-({5-methyl-4-[(1S)-7-(trifluoromethyl)-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}cyclopentyl]methyl sulfamate
I-259a	[(1R,2R,3S,4R)-4-{[5-({4-[(1R)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate or [(1R,2R,3S,4R)-4-{[5-({4-[(1S)-7-bromo-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-chloro-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2,3-dihydroxycyclopentyl]methyl sulfamate;
I-261b	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

I-263a	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-264b	[(1R,2R,3R,4R)-4-{[5-({4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-3-fluoro-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2R,3R,4R)-4-{[5-({4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-3-fluoro-2-hydroxycyclopentyl]methyl sulfamate;
I-266b	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(8S)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({5-chloro-4-[(8R)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-268b	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-bromo-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(1S)-7-bromo-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-269a	[(1R,2S,4R)-4-{[5-({4-[(7S)-4,7-dihydro-5H-thieno[2,3-c]pyran-7-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(7R)-4,7-dihydro-5H-thieno[2,3-c]pyran-7-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-270b	{(1R,2S,4R)-4-[(5-{4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate or {(1R,2S,4R)-4-[(5-{4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-furoyl}pyrimidin-4-yl)amino]-2-hydroxycyclopentyl}methyl sulfamate;
I-271a	[(1R,2R,3R,4R)-4-{[5-({4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-

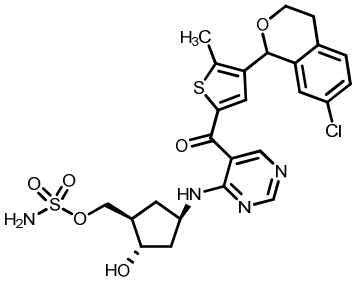
	2-thienyl}carbonyl)pyrimidin-4-yl]amino}-3-fluoro-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2R,3R,4R)-4-{[5-({4-[(1S)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-3-fluoro-2-hydroxycyclopentyl]methyl sulfamate;
I-277a	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-cyclopropyl-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(1S)-7-cyclopropyl-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-282b	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(1R)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({5-chloro-4-[(1S)-7-chloro-3,4-dihydro-1H-isochromen-1-yl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-285a	[(1R,2S,4R)-4-{[5-({4-[(8S)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(8R)-5,8-dihydro-6H-pyrano[3,4-b]pyridin-8-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-6a	[(1R,2S,4R)-4-{[5-({4-[(R)-amino(3-chlorophenyl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({4-[(S)-amino(3-chlorophenyl)methyl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-9a	[(1R,2S,4R)-4-{[5-({5-chloro-4-[(R)-(3-chlorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate or [(1R,2S,4R)-4-{[5-({5-chloro-4-[(S)-(3-chlorophenyl)(hydroxy)methyl]-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

and pharmaceutically acceptable salts thereof.

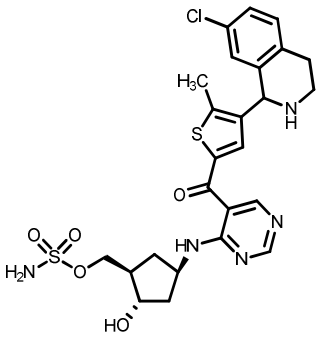
43. A chemical entity chosen from:



I-256;



I-257;



I-263;

and pharmaceutically acceptable salts thereof.

44. The chemical entity of claim 43, wherein the chemical entity is chosen from

[(1R,2S,4R)-4-{[5-({4-[(1S)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-

I-256	2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; and [(1R,2S,4R)-4-{[5-({4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-256a	[(1R,2S,4R)-4-{[5-({4-[(1S)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-256b	[(1R,2S,4R)-4-{[5-({4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

and pharmaceutically acceptable salts thereof.

45. The chemical entity of claim 44, wherein the chemical entity is chosen from:

[(1R,2S,4R)-4-{[5-({4-[(1R)-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate of formula I-256b and pharmaceutically acceptable salts thereof.

46. The chemical entity of claim 45, wherein the chemical entity is crystalline Form 1 of:

[(1R,2S,4R)-4-{[5-({4-[(1R)-3,4-Dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate of formula I-256b.

47. The chemical entity of claim 43, wherein the chemical entity is chosen from:

I-257	[(1R,2S,4R)-4-{[5-({4-[(1S)-7-Chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate; and [(1R,2S,4R)-4-{[5-({4-[(1R)-7-Chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-257a	[(1R,2S,4R)-4-{[5-({4-[(1S)-7-Chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-257b	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-Chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

and pharmaceutically acceptable salts thereof.

48. The chemical entity of claim 47, wherein the chemical entity is chosen from:

[(1R,2S,4R)-4-{[5-({4-[(1R)-7-Chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate of formula I-257b

and pharmaceutically acceptable salts thereof.

49. The chemical entity of claim 48, wherein the chemical entity is crystalline Form 1 of:

[(1R,2S,4R)-4-{[5-({4-[(1R)-7-Chloro-3,4-dihydro-1H-isochromen-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate of formula I-257b.

50. The chemical entity of claim 43, wherein the chemical entity is chosen from:

I-263a	[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;
I-263b	[(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate;

and pharmaceutically acceptable salts thereof.

51. The chemical entity of claim 50, wherein the chemical entity is chosen from:

[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate of formula I-263a and pharmaceutically acceptable salts thereof.

52. The chemical entity of claim 51, wherein the chemical entity is crystalline Form 1 of:

[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate of formula I-263a.

53. The chemical entity of claim 51, wherein the chemical entity is crystalline Form 2 of:

[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate of formula I-263a.

54. The chemical entity of claim 51, wherein the chemcial entity is crystalline Form 3 of:

[(1R,2S,4R)-4-{[5-({4-[(1R)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate of formula I-263a.

55. The chemical entity of claim 51, wherein the chemical entity is chosen from:

[(1R,2S,4R)-4-{[5-({4-[(1S)-7-chloro-1,2,3,4-tetrahydroisoquinolin-1-yl]-5-methyl-2-thienyl}carbonyl)pyrimidin-4-yl]amino}-2-hydroxycyclopentyl]methyl sulfamate of formula I-263b and pharmaceutically acceptable salts thereof.