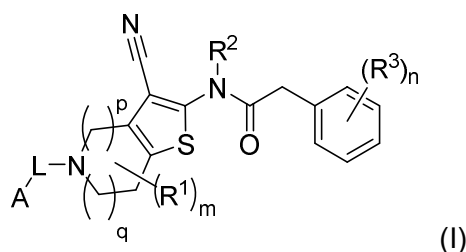


Claims

1. A compound of formula (I), or a pharmaceutically acceptable salt thereof:



wherein:

A is phenyl or 3-6 membered cycloalkyl; wherein the 3-6 membered cycloalkyl
~~each of which~~ is optionally substituted with -C₁₋₆alkyl, cyano, -C₁₋₄aminoalkyl, -
 C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -C₁₋₄haloalkoxyl, and halo, and wherein the phenyl is
substituted with -C₁₋₆alkyl, cyano, -C₁₋₄aminoalkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -
C₁₋₄haloalkoxyl, and halo;

L is -C₁₋₆alkylene-;

each R¹ is independently selected from -C₁₋₆alkyl, cyano, -C₁₋₄aminoalkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -C₁₋₄haloalkoxyl, and halo;

~~each~~ R² is H or -C₁₋₆alkyl;

each R³ is independently selected from -C₁₋₆alkyl, -CN, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -
 C₁₋₄haloalkoxyl, halogen, -C(O)R^{3a}, -C(O)OR^{3b}, -C(O)NR^{3c}R^{3d}, -P(O)R^{3e}R^{3f}, -
 P(O)(OR^{3g})(OR^{3h}), -P(O)(OR³ⁱ)(R^{3j}), -S(O)₂R^{3k}, -S(O)₂NR^{3l}R^{3m}, -S(O)R³ⁿ, -
 NR^{3o}R^{3p}, -NR^{3q}C(O)R^{3r}, -N(R^{3s})C(O)OR^{3t} and -NR^{3u}S(O)₂R^{3v}, wherein each of
 the -C₁₋₆alkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, and -C₁₋₄haloalkoxyl is independently
 optionally substituted by hydroxyl, -NR^{3w}R^{3x}, -C₁₋₄alkoxyl, -S(O)₂NR^{3y}R^{3z}, or -
 S(O)₂R^{3a2}, wherein each of R^{3w}, R^{3x}, R^{3y}, and R^{3z} is independently H, -C₁₋₄alkyl
 or -C₁₋₆haloalkyl and R^{3a2} is -C₁₋₄alkyl or -C₁₋₆haloalkyl, -or

any two R³ may combine with one atom to form a 5-6 membered fused
 heterocycloalkyl, wherein the heterocycloalkyl comprises one or two
 heteroatoms selected from N and S, and wherein the heterocycloalkyl is
 independently optionally substituted with one or two groups selected from -C₁₋₆alkyl, -C₁₋₄aminoalkyl, -CN, -C₁₋₄alkoxyl, halogen, -C₁₋₆haloalkyl and -C₁₋₄haloalkoxyl;

each of R^{3a} , R^{3b} , R^{3c} , R^{3d} , R^{3e} , R^{3f} , R^{3g} , R^{3h} , R^{3i} , R^{3j} , R^{3k} , R^{3n} , R^{3o} , R^{3p} , R^{3q} , R^{3r} , R^{3s} , R^{3t} , R^{3u} , R^{3v} is independently selected from H, $-C_{1-6}$ alkyl and $-C_{1-6}$ haloalkyl; each of R^{3l} and R^{3m} is independently selected from H, $-C_{1-6}$ alkyl, $-C_{1-6}$ haloalkyl, -aminoalkyl, and -hydroxyalkyl, wherein the $-C_{1-6}$ alkyl is optionally further substituted by 3-6 membered cycloalkyl, and wherein the 3-6 membered cycloalkyl substituent is optionally further substituted by 1-2 halo; ~~or R^{23} and R^{24} may combine with the N to form a 5-6 membered heterocycloalkyl, wherein the 5-6 membered heterocycloalkyl optionally further comprises one hetero atom selected from S and N;~~

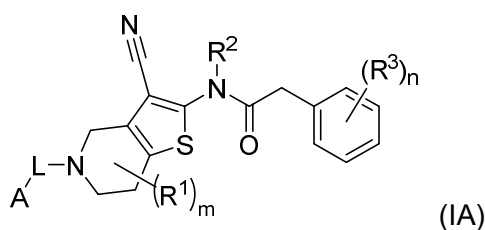
p is 1, 2 or 3;

q is 0 or 1;

m is 0, 1 or 2, and

~~each of n and m is independently selected from 0, 1 and or 2.~~

2. TheA compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein p is 1.
3. TheA compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein p is 2.
4. TheA compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein p is 3.
5. TheA compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein q is 0.
6. TheA compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein q is 1.
7. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound of formula (I) is aA compound of formula (IA), or a pharmaceutically acceptable salt thereof:



wherein:

A is phenyl or 3-6 membered cycloalkyl, wherein the 3-6 membered cycloalkyl is optionally substituted with -C₁₋₆alkyl, cyano, -C₁₋₄aminoalkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -C₁₋₄haloalkoxyl, and halo, and wherein the phenyl is substituted with -C₁₋₆alkyl, cyano, -C₁₋₄aminoalkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -C₁₋₄haloalkoxyl, and halo;

L is -C₁₋₆alkylene-;

each R¹ is independently selected from -C₁₋₆alkyl, cyano, -C₁₋₄aminoalkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -C₁₋₄haloalkoxyl, and halo;

R² is H or -C₁₋₆alkyl;

each R³ is independently selected from -C₁₋₆alkyl, -CN, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -C₁₋₄haloalkoxyl, halogen, -C(O)R^{3a}, -C(O)OR^{3b}, -C(O)NR^{3c}R^{3d}, -P(O)R^{3e}R^{3f}, -P(O)(OR^{3g})(OR^{3h}), -P(O)(OR³ⁱ)(R^{3j}), -S(O)₂R^{3k}, -S(O)₂NR^{3l}R^{3m}, -S(O)R³ⁿ, -NR^{3o}R^{3p}, -NR^{3q}C(O)R^{3r}, -N(R^{3s})C(O)OR^{3t} and -NR^{3u}S(O)₂R^{3v}, wherein each of the -C₁₋₆alkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, and -C₁₋₄haloalkoxyl is independently optionally substituted by hydroxyl, -NR^{3w}R^{3x}, -C₁₋₄alkoxyl, -S(O)₂NR^{3y}R^{3z}, or -S(O)₂R^{3a2}; wherein each of R^{3w}, R^{3x}, R^{3y}, and R^{3z} is independently H, -C₁₋₄alkyl or -C₁₋₆haloalkyl and R^{3a2} is -C₁₋₄alkyl or -C₁₋₆haloalkyl, or

any two R³ may combine with one atom to form a 5-6 membered fused heterocycloalkyl, wherein the heterocycloalkyl comprises one or two heteroatoms selected from N and S, and wherein the heterocycloalkyl is independently optionally substituted with one or two groups selected from -C₁₋₆alkyl, -C₁₋₄aminoalkyl -CN, -C₁₋₄alkoxyl, halogen, -C₁₋₆haloalkyl and -C₁₋₄haloalkoxyl;

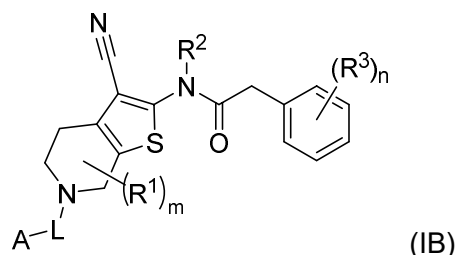
each of R^{3a}, R^{3b}, R^{3c}, R^{3d}, R^{3e}, R^{3f}, R^{3g}, R^{3h}, R³ⁱ, R^{3j}, R^{3k}, R³ⁿ, R^{3o}, R^{3p}, R^{3q}, R^{3r}, R^{3s}, R^{3t}, R^{3u}, R^{3v} is independently selected from H, -C₁₋₆alkyl and -C₁₋₆haloalkyl;

each of R^{3l} and R^{3m} is independently selected from H, -C₁₋₆alkyl, -C₁₋₆haloalkyl, -aminoalkyl, and -hydroxyalkyl, wherein the -C₁₋₆alkyl is optionally further substituted by 3-6 membered cycloalkyl, and wherein the 3-6 membered cycloalkyl substituent is optionally further substituted by 1-2 halo;

m is 0, 1 or 2, and

n is 0, 1 or 2.

8. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound of formula (I) is aA compound of formula (IB), or a pharmaceutically acceptable salt thereof:



wherein:

A is phenyl or 3-6 membered cycloalkyl, wherein the 3-6 membered cycloalkyl is optionally substituted with -C₁₋₆alkyl, cyano, -C₁₋₄aminoalkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -C₁₋₄haloalkoxyl, and halo, and wherein the phenyl is substituted with -C₁₋₆alkyl, cyano, -C₁₋₄aminoalkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -C₁₋₄haloalkoxyl, and halo;

L is -C₁₋₆alkylene-;

each R¹ is independently selected from -C₁₋₆alkyl, cyano, -C₁₋₄aminoalkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -C₁₋₄haloalkoxyl, and halo;

R² is H or -C₁₋₆alkyl;

each R³ is independently selected from -C₁₋₆alkyl, -CN, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, -C₁₋₄haloalkoxyl, halogen, -C(O)R^{3a}, -C(O)OR^{3b}, -C(O)NR^{3c}R^{3d}, -P(O)R^{3e}R^{3f}, -P(O)(OR^{3g})(OR^{3h}), -P(O)(OR³ⁱ)(R^{3j}), -S(O)₂R^{3k}, -S(O)₂NR^{3l}R^{3m}, -S(O)R³ⁿ, -NR^{3o}R^{3p}, -NR^{3q}C(O)R^{3r}, -N(R^{3s})C(O)OR^{3t} and -NR^{3u}S(O)₂R^{3v}, wherein each of the -C₁₋₆alkyl, -C₁₋₄alkoxyl, -C₁₋₆haloalkyl, and -C₁₋₄haloalkoxyl is independently optionally substituted by hydroxyl, -NR^{3w}R^{3x}, -C₁₋₄alkoxyl, -S(O)₂NR^{3y}R^{3z}, or -S(O)₂R^{3a2}, wherein each of R^{3w}, R^{3x}, R^{3y}, and R^{3z} is independently H, -C₁₋₄alkyl or -C₁₋₆haloalkyl and R^{3a2} is -C₁₋₄alkyl or -C₁₋₆haloalkyl, or

any two R³ may combine with one atom to form a 5-6 membered fused heterocycloalkyl, wherein the heterocycloalkyl comprises one or two heteroatoms selected from N and S, and wherein the heterocycloalkyl is independently optionally substituted with one or two groups selected from -C₁₋₆alkyl, -C₁₋₄aminoalkyl, -CN, -C₁₋₄alkoxyl, halogen, -C₁₋₆haloalkyl and -C₁₋₄haloalkoxyl;

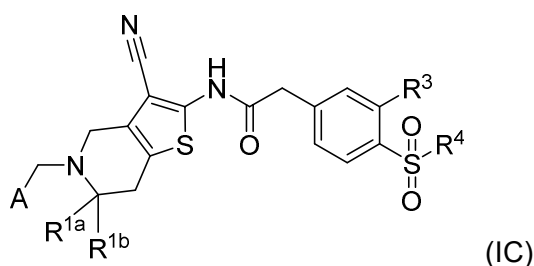
each of R^{3a}, R^{3b}, R^{3c}, R^{3d}, R^{3e}, R^{3f}, R^{3g}, R^{3h}, R³ⁱ, R^{3j}, R^{3k}, R³ⁿ, R^{3o}, R^{3p}, R^{3q}, R^{3r}, R^{3s}, R^{3t}, R^{3u}, R^{3v} is independently selected from H, -C₁₋₆alkyl and -C₁₋₆haloalkyl;
each of R^{3l} and R^{3m} is independently selected from H, -C₁₋₆alkyl, -C₁₋₆haloalkyl, -aminoalkyl, and -hydroxyalkyl, wherein the -C₁₋₆alkyl is optionally further

substituted by 3-6 membered cycloalkyl, and wherein the 3-6 membered cycloalkyl substituent is optionally further substituted by 1-2 halo;

m is 0, 1 or 2, and

n is 0, 1 or 2.

9. The compound of any one of claims 1 to 8~~the preceding claims~~, or a pharmaceutically acceptable salt thereof, wherein R^2 is H or CH_3 .
10. The compound of any one of claims 1 to 8~~the preceding claims~~, or a pharmaceutically acceptable salt thereof, wherein L is selected from $-CH_2-$, $-CH(CH_3)-$, $-CH_2-CH_2-$ and $-CH_2CH_2CH_2-$.
11. The compound of any one of claims 1 to 8~~the preceding claims~~, or a pharmaceutically acceptable salt thereof, wherein at least one R^3 is $-S(O)_2NH_2$, $-S(O)_2N(CH_3)_2$, $-S(O)_2NHCH_3$, $-S(O)_2NH-CH_2$ -cyclobutyl, $-S(O)_2NH-CH_2$ -cyclopentyl, $-S(O)_2NH-CH_2$ -cyclohexyl, $-S(O)_2NH-CH_2$ -difluorocyclobutyl, $-S(O)_2CH_3$ and $-S(O)_2CHF_2$.
12. ~~The A~~ compound of claim 1, having formula (IC), or a pharmaceutically acceptable salt thereof:



wherein:

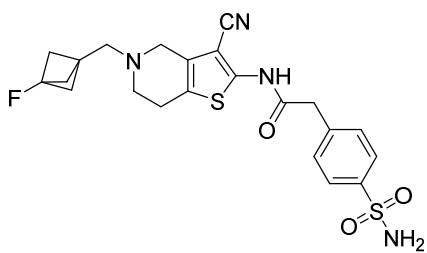
R^{1a} and R^{1b} are independently selected from -H, $-CH_3$ and $-CH_2CH_3$;

R^3 is H, $-OCH_3$ or $-OCH_2CH_3$, and

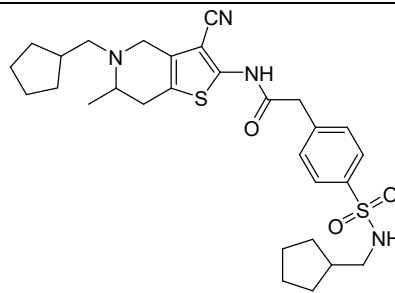
R^4 is selected from $-NH_2$, $-N(CH_3)_2$, $-NHCH_3$, $-NH-CH_2$ -cyclobutyl, $-NH-CH_2$ -cyclopentyl, $-NH-CH_2$ -cyclohexyl, $-NH-CH_2$ -difluorocyclobutyl, $-CH_3$ and $-CHF_2$ or is combined with R^3 to form a 1,1-dioxido-2,3-dihydrothiophenyl or 1,1-dioxido-2,3-dihydroisothiazolyl ring.

13. The compound of any one of claims 1 to 8 and 12~~the preceding claims~~, or a pharmaceutically acceptable salt thereof, wherein A is phenyl, ~~optionally~~ wherein the phenyl is substituted with one or two substituents selected from F or Cl.
14. The compound of any one of claims 1- to 8 and 12, or a pharmaceutically acceptable salt thereof, wherein A is selected from cyclobutyl, cyclopentyl, cyclohexyl and bicyclo[1.1.1]pentanyl, each of which is optionally substituted with F or Cl.

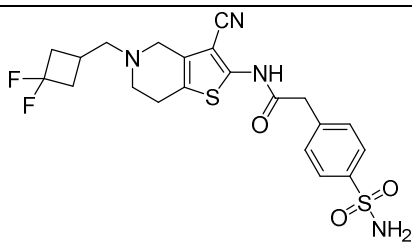
- 15.1. The compound of any one of the preceding claims, or a pharmaceutically acceptable salt thereof, wherein R^{1a} and R^{1b} are independently selected from H, CH_3 and CH_2CH_3 .
- 16.1. The compound of any one of the preceding claims, or a pharmaceutically acceptable salt thereof, wherein R^3 is H, OCH_3 or OCH_2CH_3 .
- 17.15. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is selected from:



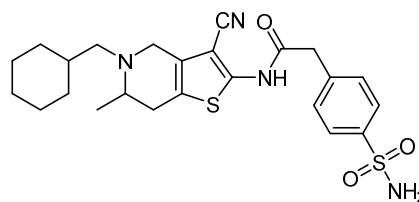
N-(3-cyano-5-((3-fluorobicyclo[1.1.1]pentan-1-yl)methyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



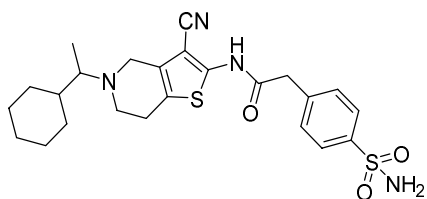
N-(3-cyano-5-(cyclopentylmethyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-(N-(cyclopentylmethyl)sulfamoyl)phenyl)acetamide



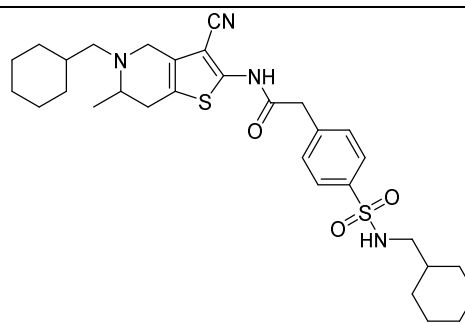
N-(3-cyano-5-((3,3-difluorocyclobutyl)methyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



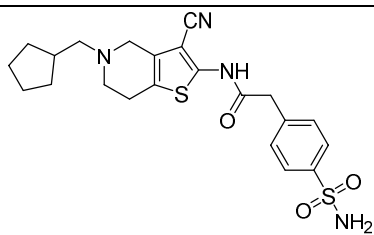
N-(3-cyano-5-(cyclohexylmethyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



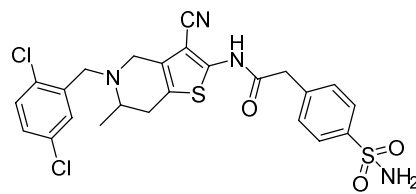
N-(3-cyano-5-(1-cyclohexylethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



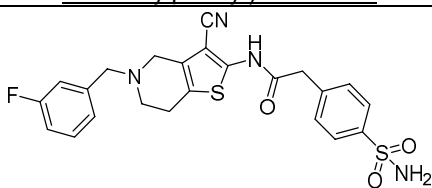
N-(3-cyano-5-(cyclohexylmethyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-(N-(cyclohexylmethyl)sulfamoyl)phenyl)acetamide



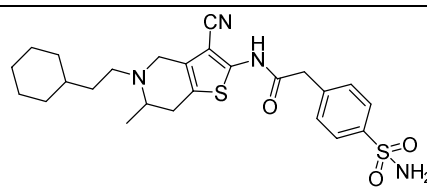
N-(3-cyano-5-(cyclopentylmethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



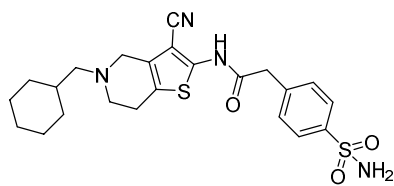
N-(3-cyano-5-(2,5-dichlorobenzyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



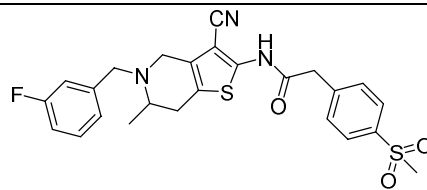
N-(3-cyano-5-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



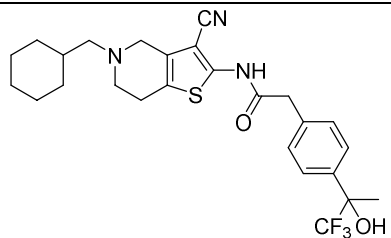
N-(3-cyano-5-(2-cyclohexylethyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



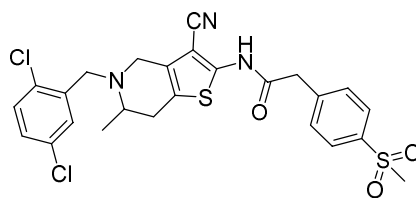
N-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



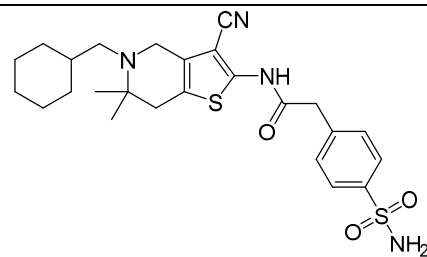
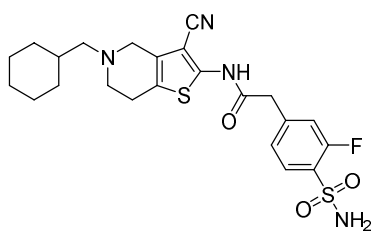
N-(3-cyano-5-(3-fluorobenzyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-(methylsulfonyl)phenyl)acetamide

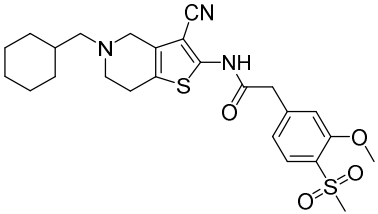
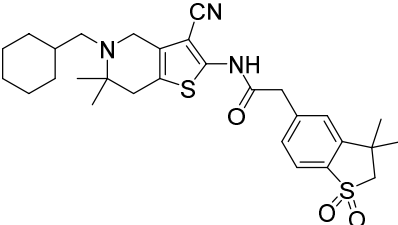
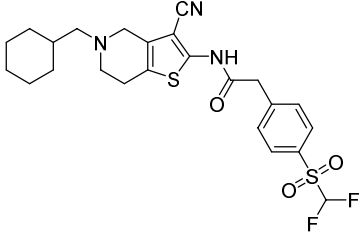
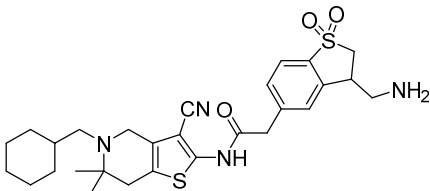
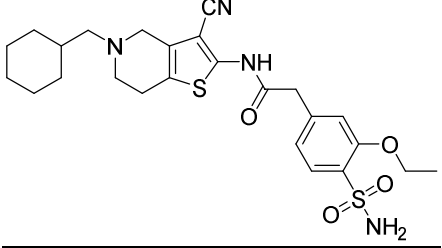
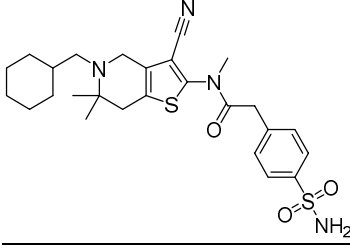
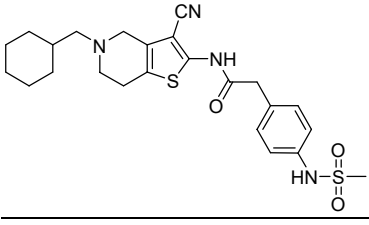
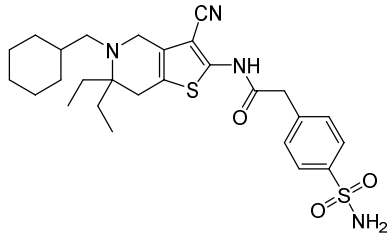


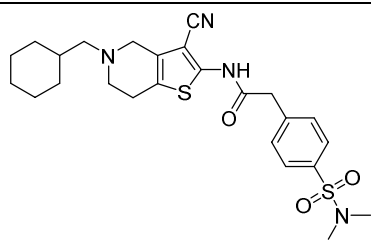
N-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-(1,1,1-trifluoro-2-hydroxypropan-2-yl)phenyl)acetamide



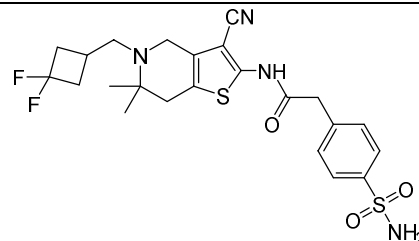
N-(3-cyano-5-(2,5-dichlorobenzyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-(methylsulfonyl)phenyl)acetamide



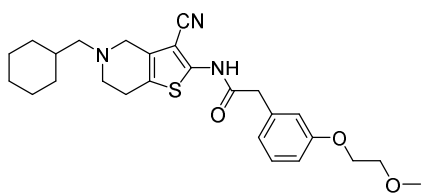
<u><i>N</i>-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-fluoro-4-sulfamoylphenyl)acetamide</u>	<u><i>N</i>-(3-cyano-5-(cyclohexylmethyl)-6,6-dimethyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>
 <u><i>N</i>-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-methoxy-4-(methylsulfonyl)phenyl)acetamide</u>	 <u><i>N</i>-(3-cyano-5-(cyclohexylmethyl)-6,6-dimethyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3,3-dimethyl-1,1-dioxido-2,3-dihydrobenzo[b]thiophen-5-yl)acetamide</u>
 <u><i>N</i>-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-((difluoromethyl)sulfonyl)phenyl)acetamide</u>	 <u>2-(3-(aminomethyl)-1,1-dioxido-2,3-dihydrobenzo[b]thiophen-5-yl)-<i>N</i>-(3-cyano-5-(cyclohexylmethyl)-6,6-dimethyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)acetamide</u>
 <u><i>N</i>-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-ethoxy-4-sulfamoylphenyl)acetamide</u>	 <u><i>N</i>-(3-cyano-5-(cyclohexylmethyl)-6,6-dimethyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-<i>N</i>-methyl-2-(4-sulfamoylphenyl)acetamide</u>
 <u><i>N</i>-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-(methylsulfonamido)phenyl)acetamide</u>	 <u><i>N</i>-(3-cyano-5-(cyclohexylmethyl)-6,6-diethyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>



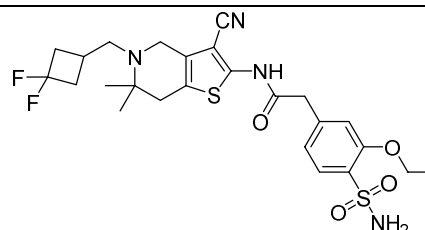
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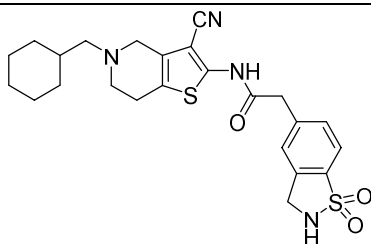
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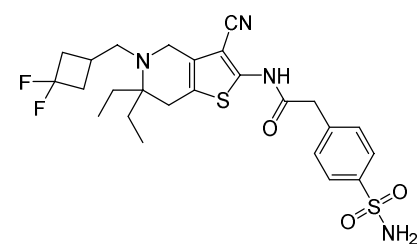
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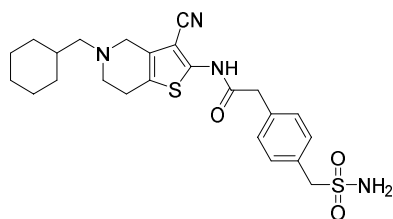
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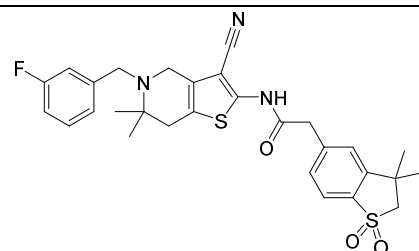
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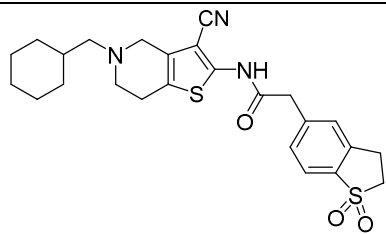
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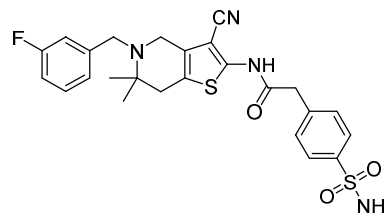
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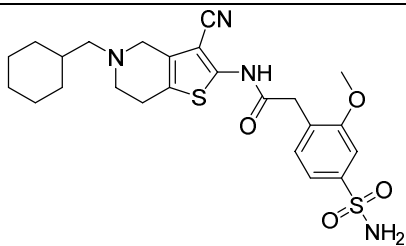
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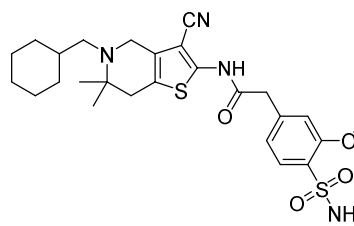
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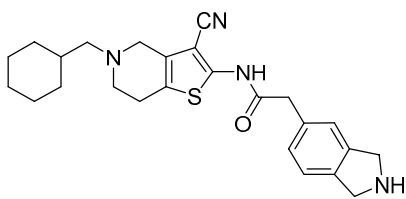
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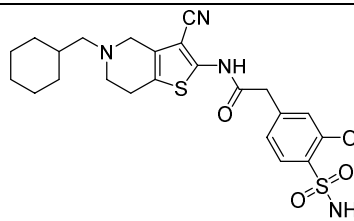
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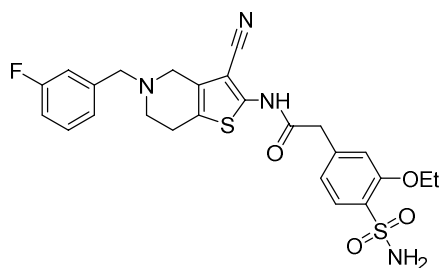
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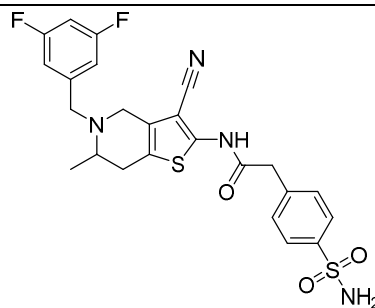
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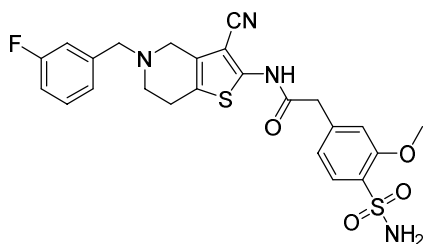
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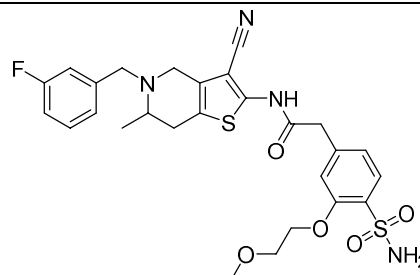
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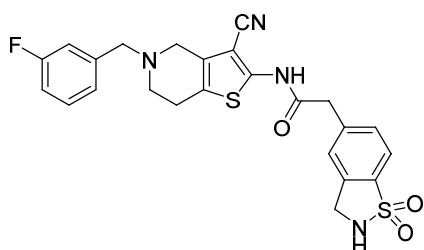
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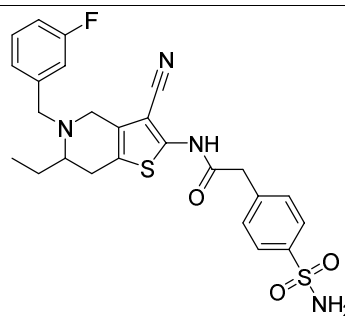
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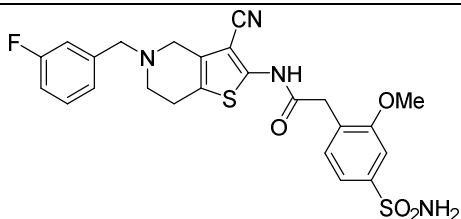
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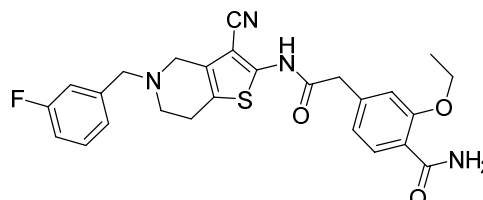
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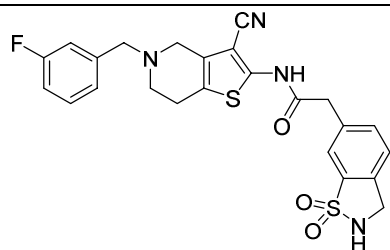
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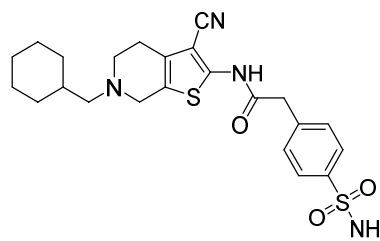
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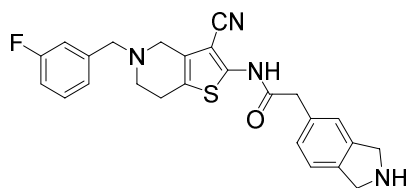
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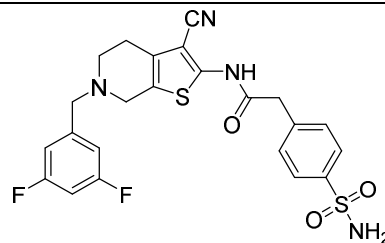
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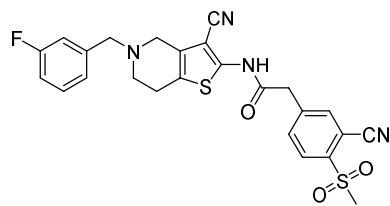
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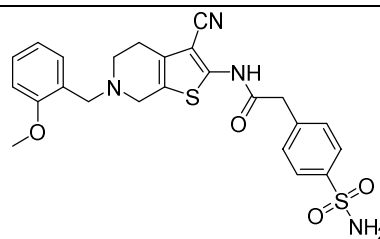
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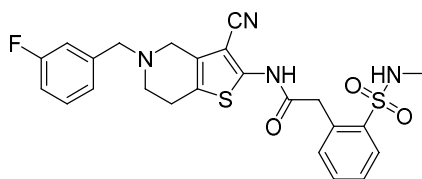
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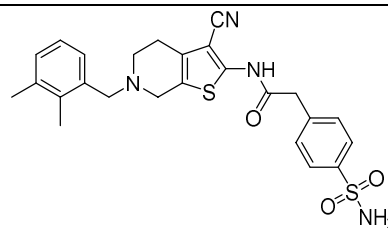
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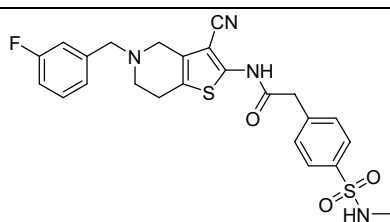
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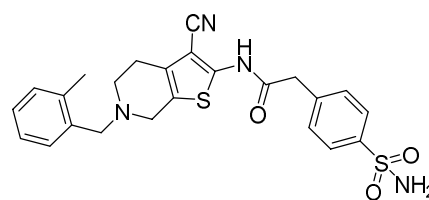
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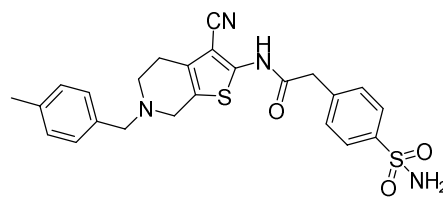
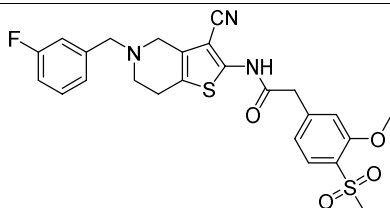
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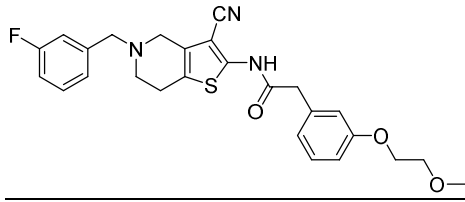
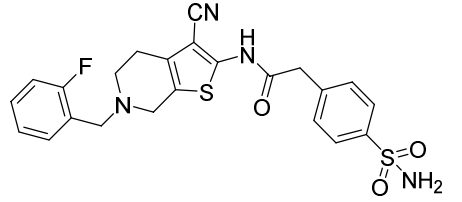
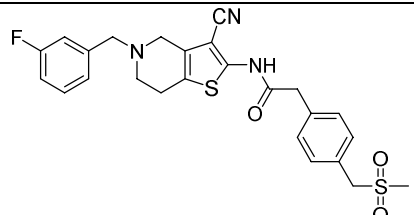
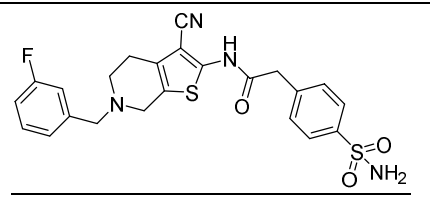
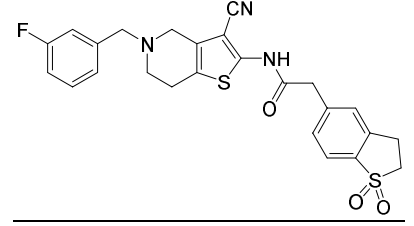
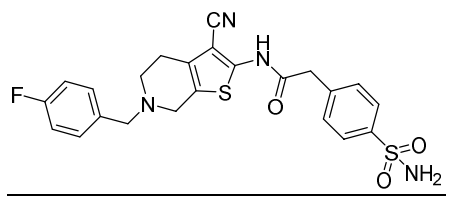
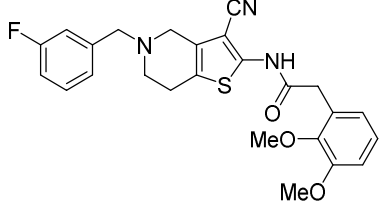
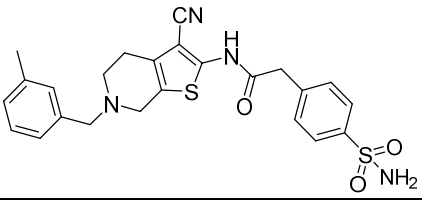


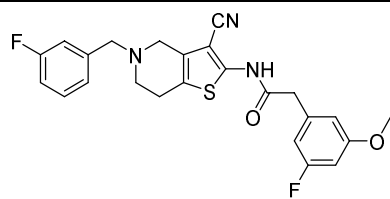
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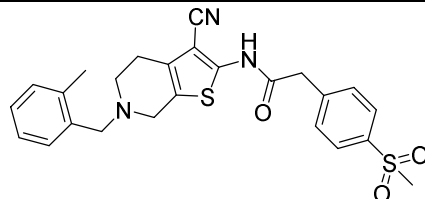
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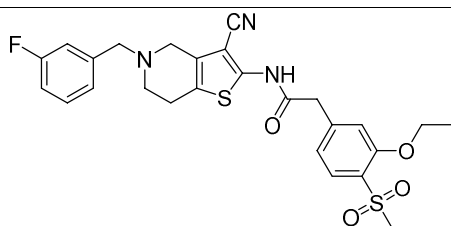
<u><i>N</i>-(3-cyano-5-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-methoxy-4-(methylsulfonyl)phenyl)acetamide</u>  <u><i>N</i>-(3-cyano-5-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-(2-methoxyethoxy)phenyl)acetamide</u>	<u><i>N</i>-(3-cyano-6-(4-methylbenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>  <u><i>N</i>-(3-cyano-6-(2-fluorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>
 <u><i>N</i>-(3-cyano-5-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-((methylsulfonyl)methyl)phenyl)acetamide</u>	 <u><i>N</i>-(3-cyano-6-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>
 <u><i>N</i>-(3-cyano-5-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(1,1-dioxido-2,3-dihydrobenzo[b]thiophen-5-yl)acetamide</u>	 <u><i>N</i>-(3-cyano-6-(4-fluorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>
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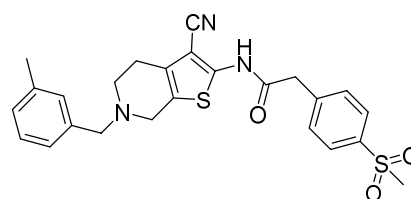
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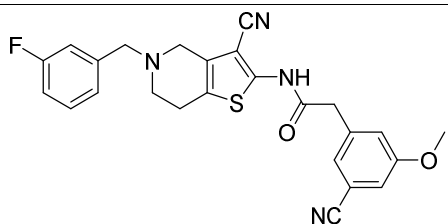
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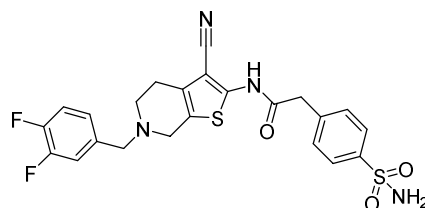
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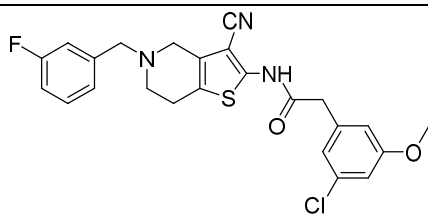
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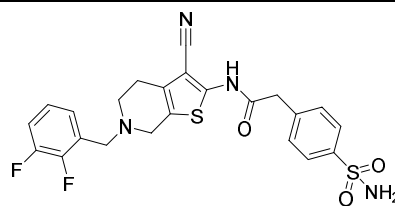
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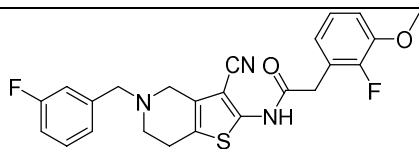
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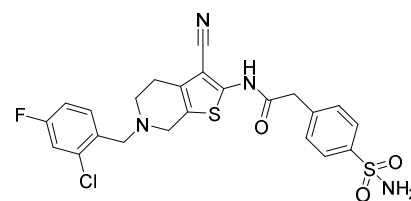
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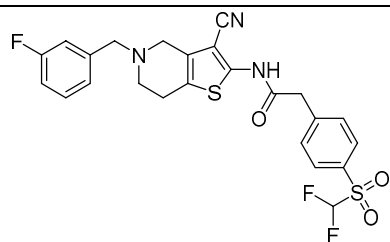
N-(3-cyano-6-(2,3-difluorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



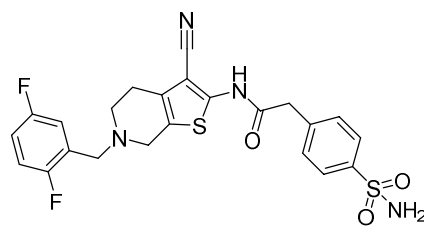
N-(3-cyano-5-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(2-fluoro-3-methoxyphenyl)acetamide



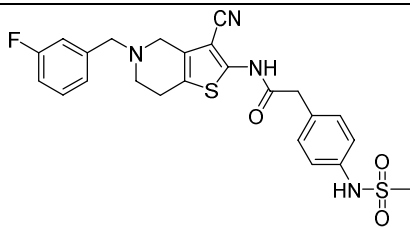
	<u><i>N</i>-(6-(2-chloro-4-fluorobenzyl)-3-cyano-4,5,6,7-tetrahydrothieno[2,3-<i>c</i>]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>
	<u><i>N</i>-(3-cyano-6-(2,5-dichlorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-<i>c</i>]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>
	<u><i>N</i>-(3-cyano-6-(3,5-dimethylbenzyl)-4,5,6,7-tetrahydrothieno[2,3-<i>c</i>]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>
	<u><i>N</i>-(6-(2-chloro-6-fluorobenzyl)-3-cyano-4,5,6,7-tetrahydrothieno[2,3-<i>c</i>]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>
	<u><i>N</i>-(3-cyano-6-(2,6-dichlorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-<i>c</i>]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>



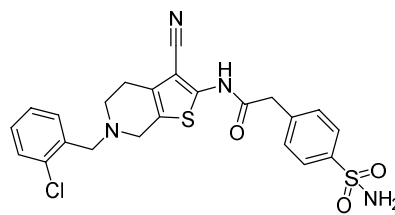
N-(3-cyano-5-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-((difluoromethyl)sulfonyl)phenyl)acetamide



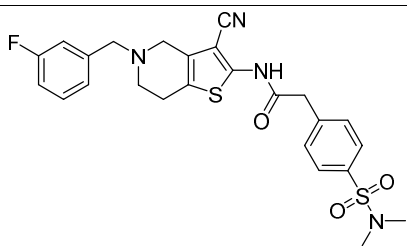
N-(3-cyano-6-(2,5-difluorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



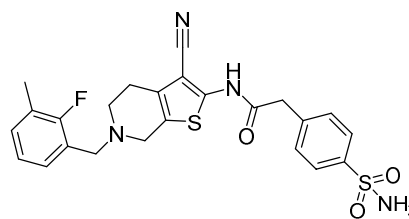
N-(3-cyano-5-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-(methylsulfonamido)phenyl)acetamide



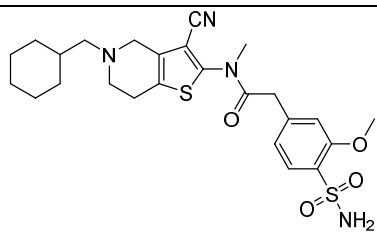
N-(6-(2-chlorobenzyl)-3-cyano-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



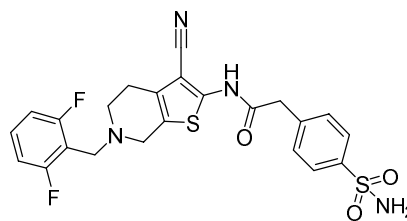
N-(3-cyano-5-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-(N,N-dimethylsulfamoyl)phenyl)acetamide



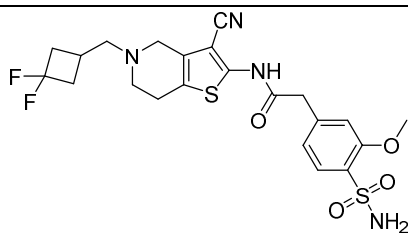
N-(3-cyano-6-(2-fluoro-3-methylbenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



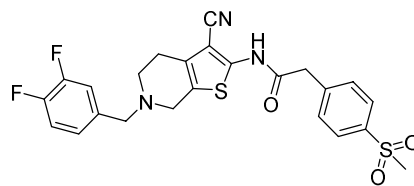
N-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-methoxy-4-sulfamoylphenyl)-N-methylacetamide



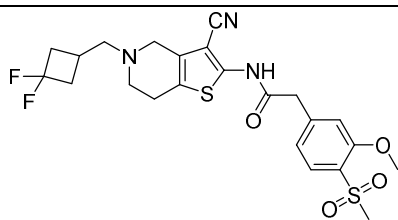
N-(3-cyano-6-(2,6-difluorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



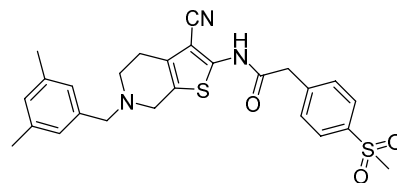
N-(3-cyano-5-((3,3-difluorocyclobutyl)methyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-methoxy-4-sulfamoylphenyl)acetamide



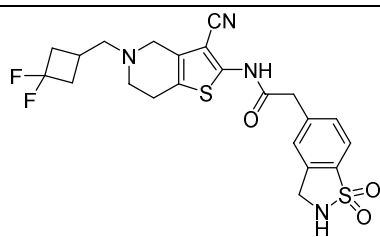
N-(3-cyano-6-(3,4-difluorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-(methylsulfonyl)phenyl)acetamide



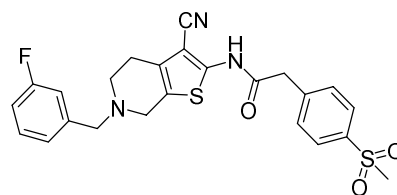
N-(3-cyano-5-((3,3-difluorocyclobutyl)methyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-methoxy-4-(methylsulfonyl)phenyl)acetamide



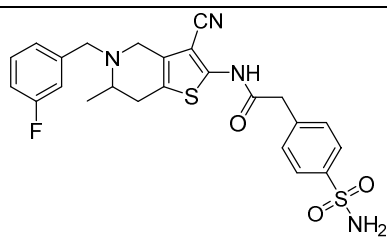
N-(3-cyano-6-(3,5-dimethylbenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-(methylsulfonyl)phenyl)acetamide



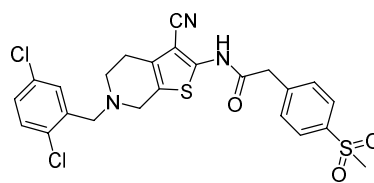
N-(3-cyano-5-((3,3-difluorocyclobutyl)methyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(1,1-dioxido-2,3-dihydrobenzo[d]isothiazol-5-yl)acetamide



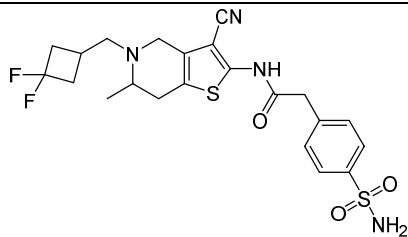
N-(3-cyano-6-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-(methylsulfonyl)phenyl)acetamide



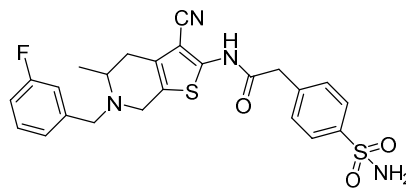
N-(3-cyano-5-(3-fluorobenzyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



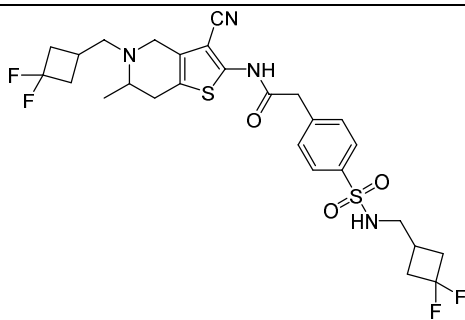
N-(3-cyano-6-(2,5-dichlorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-(methylsulfonyl)phenyl)acetamide



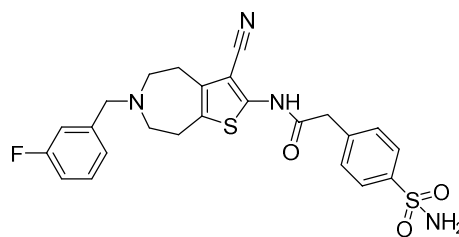
N-(3-cyano-5-((3,3-difluorocyclobutyl)methyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



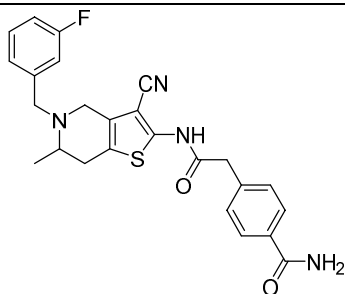
N-(3-cyano-6-(3-fluorobenzyl)-5-methyl-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



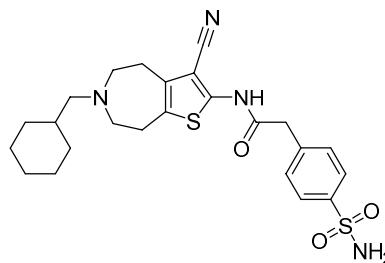
N-(3-cyano-5-((3,3-difluorocyclobutyl)methyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-(*N*-((3,3-difluorocyclobutyl)methyl)sulfamoyl)phenyl)acetamide



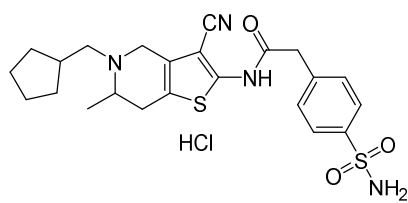
N-(3-cyano-6-(3-fluorobenzyl)-5,6,7,8-tetrahydro-4H-thieno[2,3-d]azepin-2-yl)-2-(4-sulfamoylphenyl)acetamide



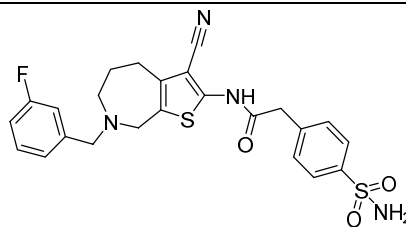
4-(2-((3-cyano-5-(3-fluorobenzyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)amino)-2-oxoethyl)benzamide



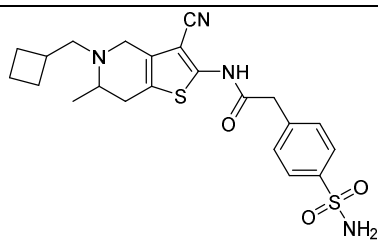
N-(3-cyano-6-(cyclohexylmethyl)-5,6,7,8-tetrahydro-4H-thieno[2,3-d]azepin-2-yl)-2-(4-sulfamoylphenyl)acetamide



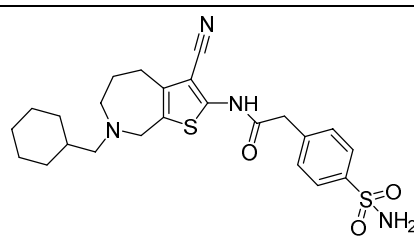
N-(3-cyano-5-(cyclopentylmethyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide hydrochloride



N-(3-cyano-7-(3-fluorobenzyl)-5,6,7,8-tetrahydro-4H-thieno[2,3-c]azepin-2-yl)-2-(4-sulfamoylphenyl)acetamide



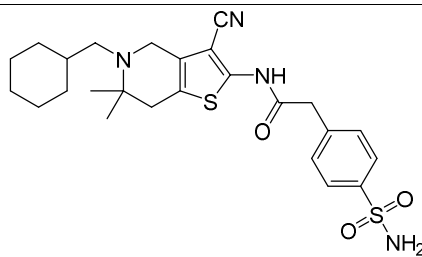
N-(3-cyano-5-(cyclobutylmethyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



N-(3-cyano-7-(cyclohexylmethyl)-5,6,7,8-tetrahydro-4H-thieno[2,3-c]azepin-2-yl)-2-(4-sulfamoylphenyl)acetamide

or a pharmaceutically acceptable salt thereof, any one of Examples 1-127.

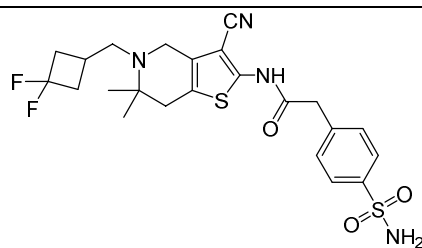
16. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is



N-(3-cyano-5-(cyclohexylmethyl)-6,6-dimethyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide

or a pharmaceutically acceptable salt thereof.

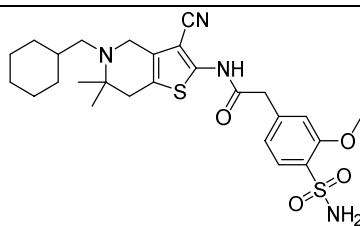
17. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is



N-(3-cyano-5-((3,3-difluorocyclobutyl)methyl)-6,6-dimethyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide

or a pharmaceutically acceptable salt thereof.

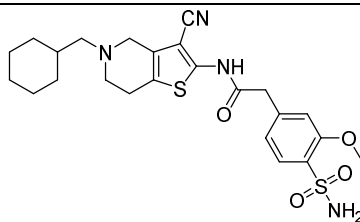
18. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is



N-(3-cyano-5-(cyclohexylmethyl)-6,6-dimethyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-methoxy-4-sulfamoylphenyl)acetamide

or a pharmaceutically acceptable salt thereof.

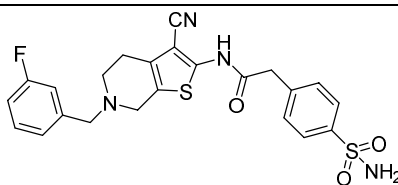
19. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is



N-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-methoxy-4-sulfamoylphenyl)acetamide

or a pharmaceutically acceptable salt thereof.

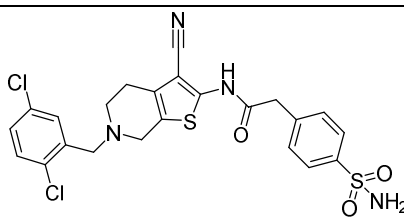
20. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is



N-(3-cyano-6-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide

or a pharmaceutically acceptable salt thereof.

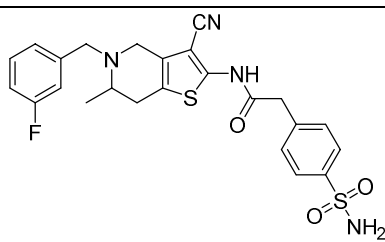
21. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is



N-(3-cyano-6-(2,5-dichlorobenzyl)-4,5,6,7-tetrahydrothieno[2,3-*c*]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide

or a pharmaceutically acceptable salt thereof.

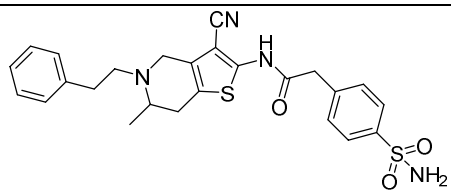
22. The compound of claim 1, or a pharmaceutically acceptable salt thereof, wherein the compound is



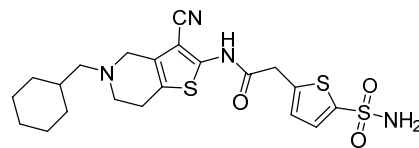
N-(3-cyano-5-(3-fluorobenzyl)-6-methyl-4,5,6,7-tetrahydrothieno[3,2-*c*]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide

or a pharmaceutically acceptable salt thereof.

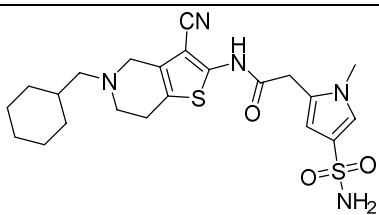
23. A compound, or a pharmaceutically acceptable salt thereof, selected from



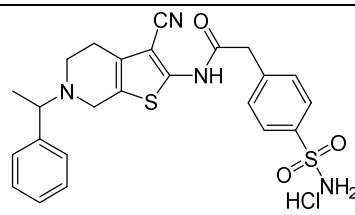
N-(3-cyano-6-methyl-5-phenethyl-4,5,6,7-tetrahydrothieno[3,2-*c*]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide



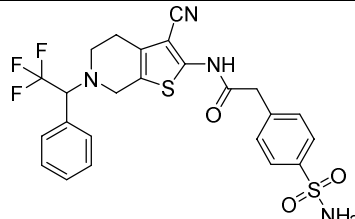
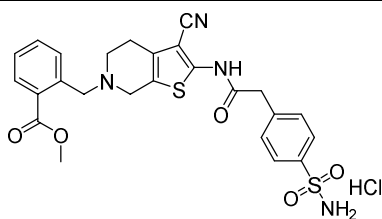
N-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-*c*]pyridin-2-yl)-2-(5-sulfamoylthiophen-2-yl)acetamide

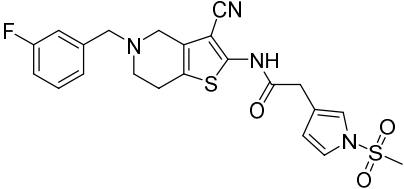
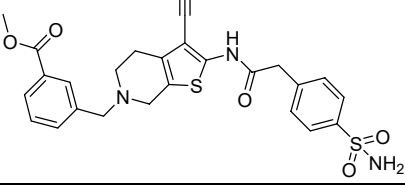
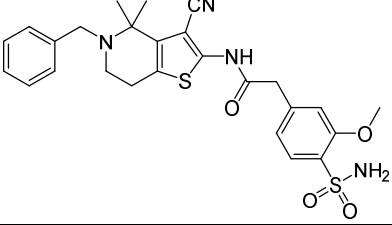
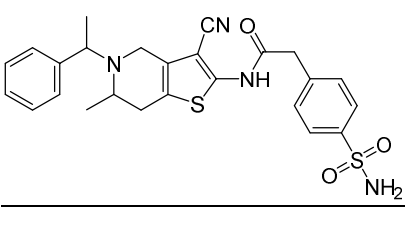
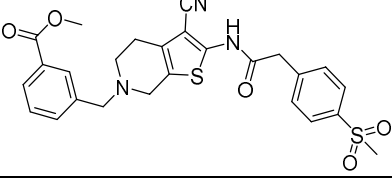
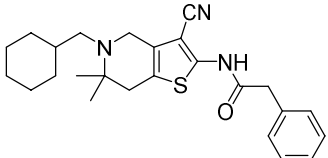


N-(3-cyano-5-(cyclohexylmethyl)-4,5,6,7-tetrahydrothieno[3,2-*c*]pyridin-2-yl)-2-(1-methyl-4-sulfamoyl-1H-pyrrol-2-yl)acetamide



N-(3-cyano-6-(1-phenylethyl)-4,5,6,7-tetrahydrothieno[2,3-*c*]pyridin-2-yl)-2-(4-sulfamoylphenyl)-acetamide hydrochloride



<u>Methyl-2-((3-cyano-2-(2-(4-sulfamoylphenyl)acetamido)-4,5-dihydrothieno[2,3-c]pyridin-6-(7H)-yl)methyl)benzoate hydrochloride</u>	<u>N-(3-cyano-6-((2-methylpyridin-4-yl)methyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>
 <u>N-(3-cyano-5-(3-fluorobenzyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(1-(methylsulfonyl)-1H-pyrrol-3-yl)acetamide</u>	 <u>Methyl 3-((3-cyano-2-(2-(4-sulfamoylphenyl)acetamido)-4,7-dihydrothieno[2,3-c]pyridin-6(5H)-yl)methyl)benzoate</u>
 <u>N-(5-benzyl-3-cyano-4,4-dimethyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(3-methoxy-4-sulfamoylphenyl)acetamide</u>	 <u>N-(3-cyano-6-methyl-5-(1-phenylethyl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-(4-sulfamoylphenyl)acetamide</u>
 <u>methyl 3-((3-cyano-2-(2-(4-(methylsulfonyl)phenyl)acetamido)-4,7-dihydrothieno[2,3-c]pyridin-6(5H)-yl)methyl)benzoate</u>	 <u>N-(3-cyano-5-(cyclohexylmethyl)-6,6-dimethyl-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)-2-phenylacetamide</u>

or a pharmaceutically acceptable salt thereof.

- 48.24. A pharmaceutical composition comprising a therapeutically effective amount of a compound of any one of ~~the preceding claims~~ claims 1 to 23, and a pharmaceutically acceptable carrier or excipient.
- 49.25. The pharmaceutical composition of claim 48.24 further comprising at least one additional pharmaceutical agent.
- 20.26. The pharmaceutical composition of claim 49.25 wherein the at least one additional pharmaceutical agent is selected from the group consisting of an ~~interferons~~, ribavirin, ~~and a~~ ribavirin analogs, a ~~cyclophilin binder~~, an ~~HCV NS3 protease inhibitors~~, an ~~HCV~~

NS5a inhibitors, a P7 inhibitor, an entry inhibitor, NS4b inhibitor, alpha-glucosidase inhibitors, host protease inhibitors, immune modulators, symptomatic relief agents, nucleoside and non-nucleoside NS5b inhibitors.

~~24-27.~~ The compound of any one of the claims 1-17 to 23 for use as a medicament.

~~22-28.~~ The use of a compound of any one of claims 1 to 17 23 in the manufacture of a medicament for the treatment of a disease caused by dengue virus ~~a viral infection~~.

~~23.~~ The use of claim 22 wherein the viral infection is caused by a virus selected from the group consisting of dengue virus, yellow fever virus, West Nile virus, Japanese encephalitis virus, tick-borne encephalitis virus, Kunjin virus, Murray Valley encephalitis, St Louis encephalitis, Omsk hemorrhagic fever virus, bovine viral diarrhea virus, Zika virus and Hepatitis C virus.

~~24.~~ The use of claim 23 wherein the viral infection is caused by dengue virus.