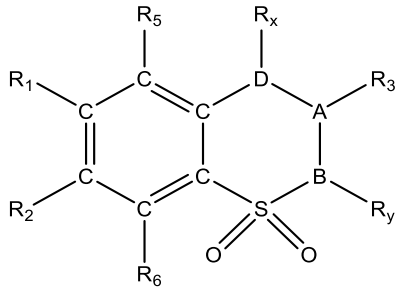
CLAIMS

1. A compound having the structure of Formula (I):



(I)

or a pharmaceutically acceptable salt, tautomer, stereoisomer, hydrate, or isotope thereof, wherein:

A is C(R');

each of B and D are independently N; wherein A and B or A and D are connected via a double or single bond;

each of R_1, R_2, R_5, and R_6 are independently hydrogen, C1-C6 alkyl, C2-C6 alkenyl, C1-C6 alkynyl, C1-C6 heteroalkyl, C1-C6 haloalkyl, -OR^A, fluorine, chlorine, bromine, iodine, nitro, or cyano; wherein A and B form a double bond and R_x is hydrogen or wherein A and D form a double bond and R_y is hydrogen;

R_3 is C1-C6 alkyl, C2-C6 alkenyl, C1-C6 alkynyl, C1-C6 heteroalkyl, C1-C6 haloalkyl, cycloalkyl, heterocyclyl, or $N(R^B)(R^C)$, wherein alkyl, alkenyl, alkynyl, heteroalkyl, haloalkyl, cycloalkyl, and heterocyclyl are each optionally substituted with one or more R_4;

R' is absent, hydrogen, or C1-C6 alkyl;

each R_4 is independently C1-C6 alkyl, C1-C6 heteroalkyl, C1-C6 haloalkyl, cycloalkyl, heterocyclyl, fluorine, chlorine, bromine, or iodine;

R^A is hydrogen, C1-C6 alkyl, C2-C6 alkenyl, C1-C6 alkynyl, C1-C6 heteroalkyl, C1-C6 haloalkyl, cycloalkyl, or heterocyclyl, wherein alkyl, alkenyl, alkynyl, heteroalkyl, haloalkyl, cycloalkyl, and heterocyclyl are each optionally substituted with one or more R_7;

each of R^B and R^C is independently hydrogen, C1-C6 alkyl, C2-C6 alkenyl, C1-C6 alkynyl, C1-C6 heteroalkyl, C1-C6 haloalkyl, cycloalkyl, heterocyclyl, wherein alkyl, alkenyl, alkynyl, heteroalkyl, haloalkyl, cycloalkyl, and heterocyclyl are each optionally substituted with one or more R_7; or

wherein R^B and R^C are taken together to form heterocyclyl optionally substituted with one or more R^7;

each R^7 is C1-C6 alkyl, C2-C6 alkenyl, C1-C6 alkynyl, C1-C6 heteroalkyl, C1-C6 haloalkyl, -OR^A, fluorine, chlorine, bromine, iodine, nitro, or cyano.

2. The compound of claim 1, wherein each of R_1 and R_2 is independently hydrogen, C1-C6 alkyl, C1-C6 heteroalkyl, C1-C6 haloalkyl, -OR^A, fluorine, chlorine, bromine, iodine, nitro, or cyano.

3. The compound of any one of the preceding claims, wherein R_3 is C1-C6 alkyl, C2-C6 alkenyl, C1-C6 alkynyl, C1-C6 heteroalkyl, C1-C6 haloalkyl, cycloalkyl, heterocyclyl, or $N(R^B)(R^C)$, each of which is optionally substituted with optionally substituted with one or more R_7.

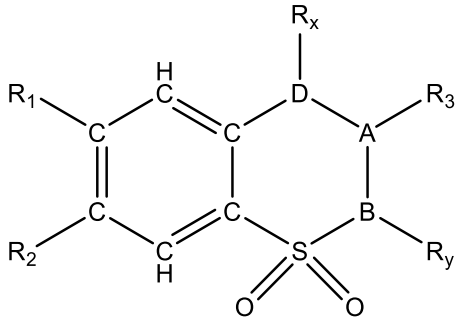
4. The compound of any one of the preceding claims, wherein R^B and R^C are taken together to form heterocyclyl optionally substituted with one or more R^7 (e.g., a 4-membered heterocyclyl, 5-membered heterocyclyl, 6-membered heterocyclyl, or a bridged heterocyclyl).

5. The compound of any one of the preceding claims, wherein R^B is hydrogen.

6. The compound of any one of the preceding claims, wherein R^C is C1-C6 alkyl, C2-C6 alkenyl, C1-C6 alkynyl, C1-C6 heteroalkyl, C1-C6 haloalkyl, cycloalkyl, heterocyclyl, each optionally substituted with one or more R_7.

7. The compound of any one of the preceding claims, wherein R_7 is C1-C6 alkyl, C2-C6 alkenyl, C1-C6 alkynyl, C1-C6 heteroalkyl, C1-C6 haloalkyl, -OR^A, fluorine, chlorine, bromine, iodine, nitro, or cyano.

8. The compound of any one of the preceding claims, wherein the compound is a compound of Formula (I-a):

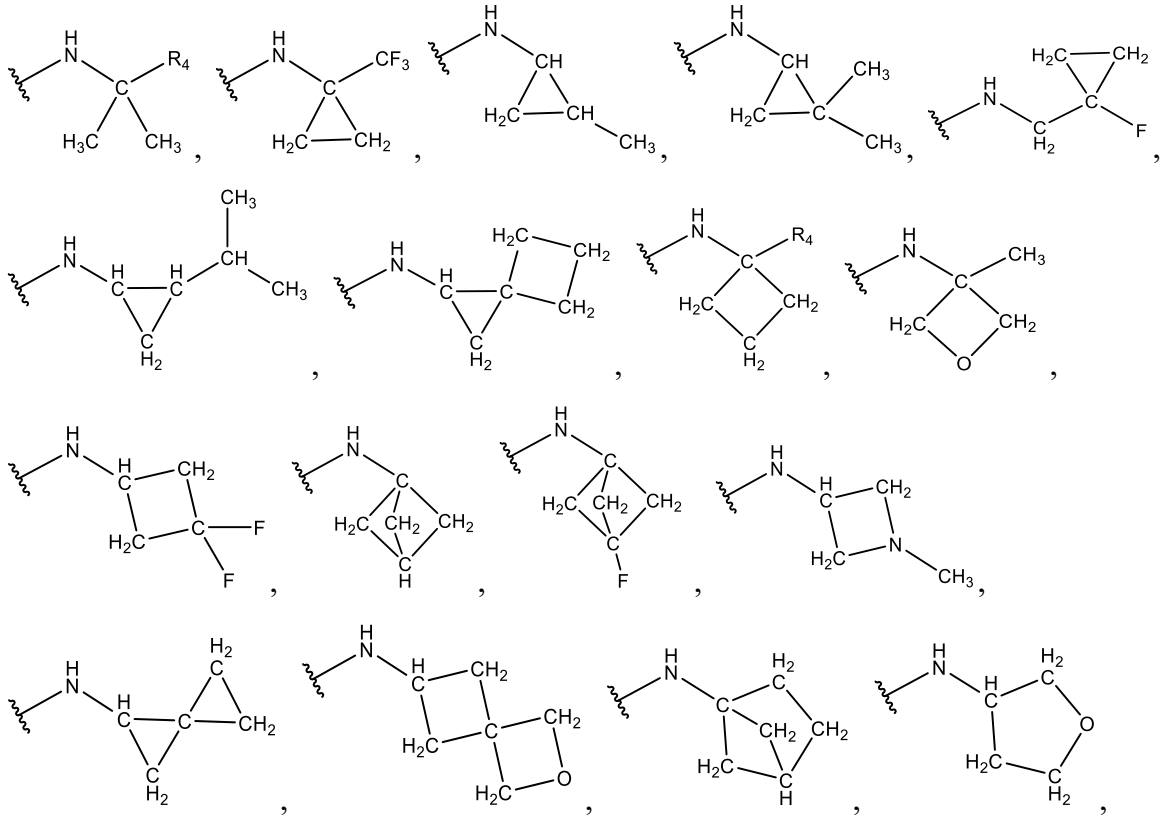


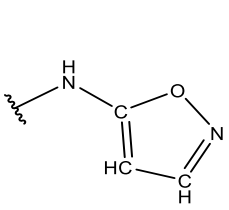
(I-a)

wherein:

- A is carbon (C);
- B and D are Nitrogen (N); and
- wherein either A and B or A and D are connected via a double bond; and
- wherein R_1 and R_2 are independently selected from the group consisting of hydrogen, fluorine, chlorine, bromine and iodine; and
- wherein A and B form a double bond and R_x is H or wherein A and D form a double bond and R_y is H; and

wherein R_3 is independently selected from the group consisting of:

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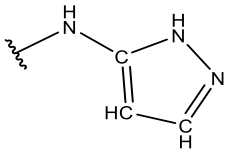
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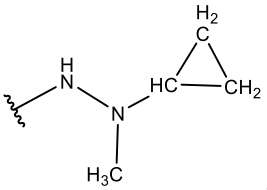
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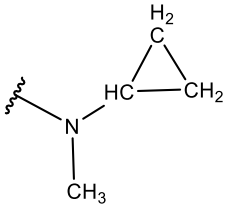
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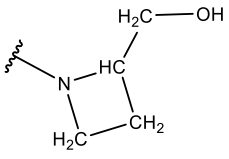
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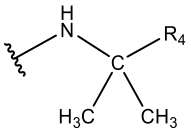
and wherein R_4 is selected from the group consisting of C1-C3 alkyl optionally substituted with one to two substituents selected from the group consisting of fluoro and hydroxy, ethynyl, C1-C2 alkoxy, (methoxy)-C1-C2 alkyl, cyano, fluoro, (methylsulfonyl)-C1-C2 alkyl, (dimethylamino)-C1-C2 alkyl and n-methyl carbamoyl.

9. The compound of any one of the preceding claims, wherein:

- A is carbon (C);
- B and D are Nitrogen (N); and
- wherein A and B or A and D are connected via a double or single bond; and
- wherein R_1 and R_2 are independently selected from the group consisting of hydrogen, fluorine, chlorine, bromine and iodine; and
- wherein A and B form a double bond and R_x is H or wherein A and D form a double bond and R_y is H; and
- wherein R_3 is independently selected from the group consisting of: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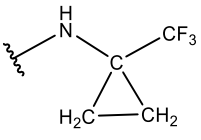
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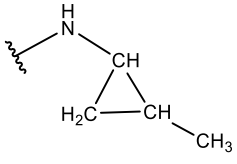
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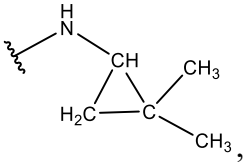
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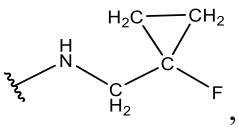
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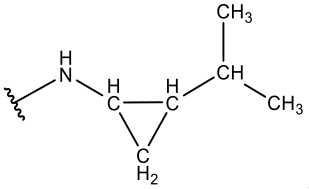
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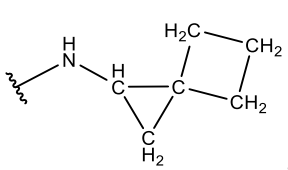
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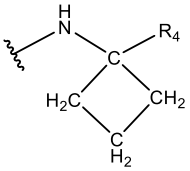
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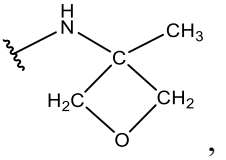
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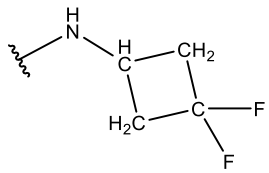
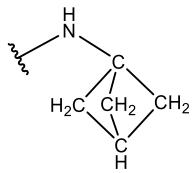
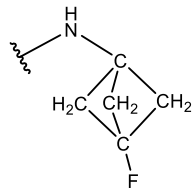
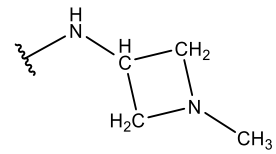
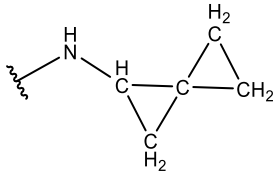
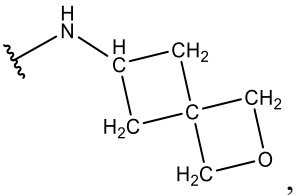
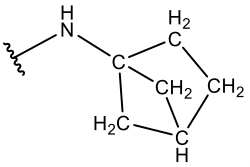
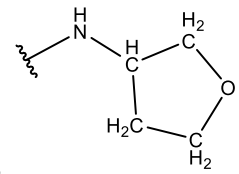
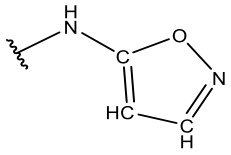
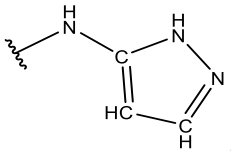
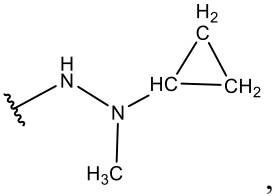
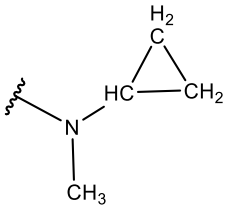
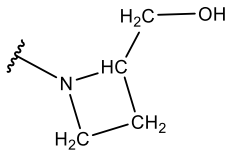
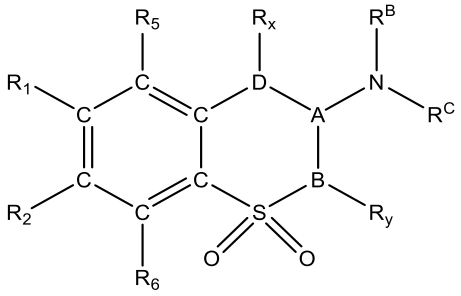
 ,  ,  ,  ,

 ,  ,  ,  ,

 ,  ,  ,  and

 .

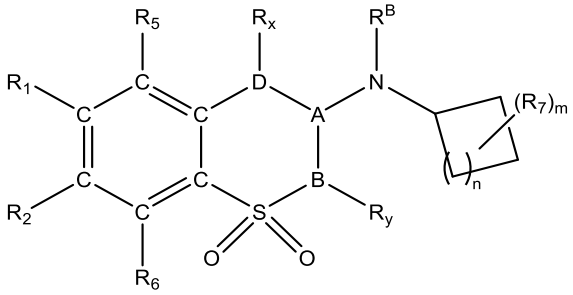
10. The compound of any one of the preceding claims, wherein the compound is a compound of Formula (I-b):



(I-b)

or a pharmaceutically acceptable salt, tautomer, stereoisomer, hydrate, or isotope thereof, wherein A, B, D, R_1, R_2, R_5, R_6, R_x R_y, $R^{A,}$ R^B, R^C, and R^7 are defined as provided for Formula (I).

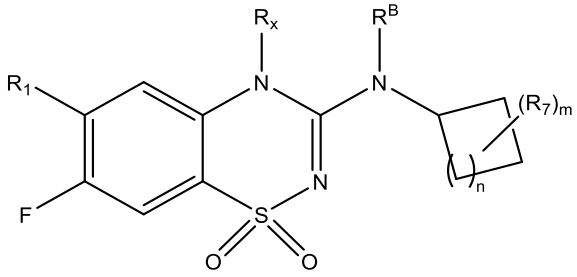
11. The compound of any one of the preceding claims, wherein the compound is a compound of Formula (I-c):



(I-c)

or a pharmaceutically acceptable salt, tautomer, stereoisomer, hydrate, or isotope thereof, wherein A, B, D, R_1, R_2, R_5, R_6, R_x R_y, R^A, R^B, R^C, and R^7 are defined as provided for Formula (I), m is an integer between 0 and 12; and n is an integer between 0 and 4.

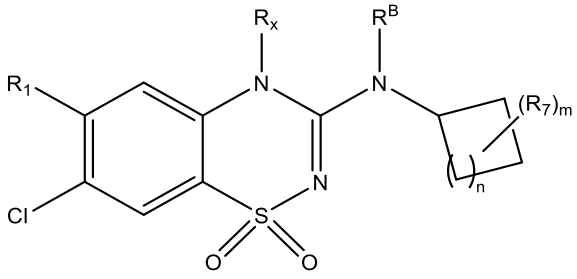
12. The compound of any one of the preceding claims, wherein the compound is a compound of Formula (I-e):



(I-e)

or a pharmaceutically acceptable salt, tautomer, stereoisomer, hydrate, or isotope thereof, wherein R_1, R_5, R_x, and R^7 are defined as provided for Formula (I), m is an integer between 0 and 12; and n is an integer between 0 and 4.

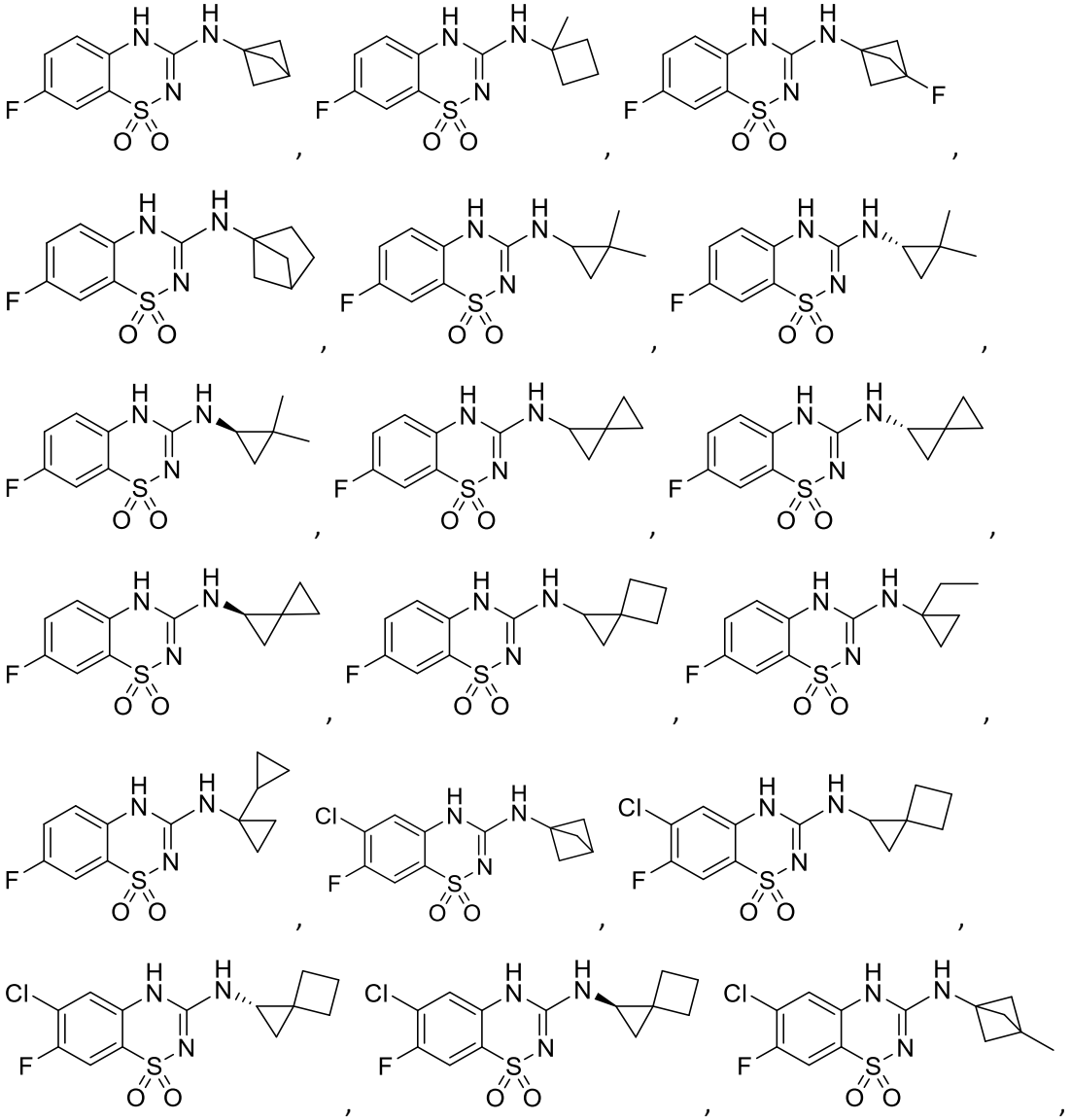
13. The compound of any one of the preceding claims, wherein the compound is a compound of Formula (I-f):

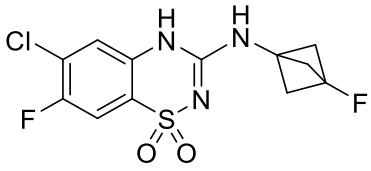


(I-f)

or a pharmaceutically acceptable salt, tautomer, stereoisomer, hydrate, or isotope thereof, wherein R_1, R_5, R_x, and R^7 are defined as provided for Formula (I), m is an integer between 0 and 12; and n is an integer between 0 and 4.

14. The compound of any one of the preceding claims, wherein the compound is selected from the group consisting of

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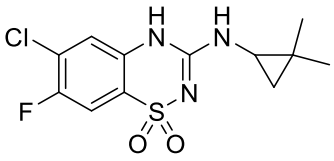
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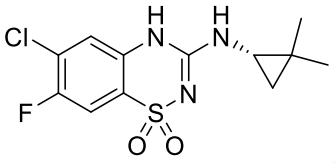
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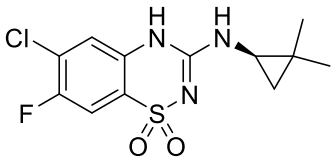
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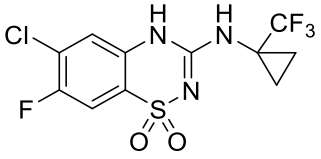
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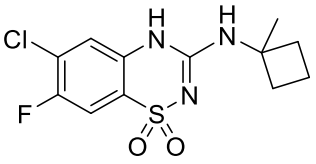
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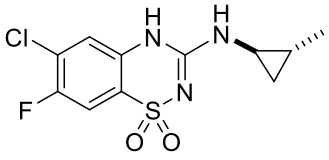
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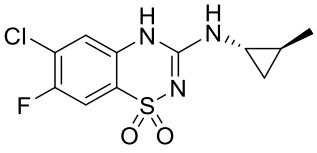
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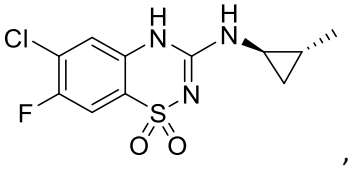
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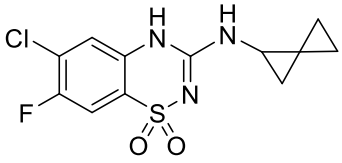
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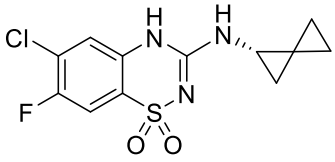
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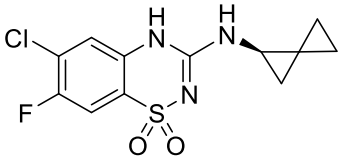
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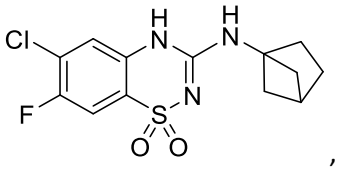
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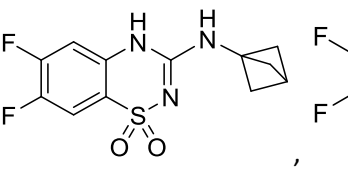
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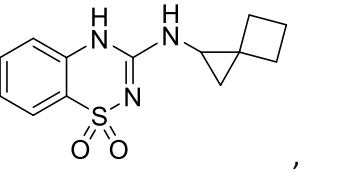
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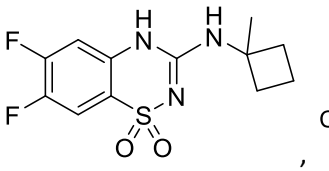
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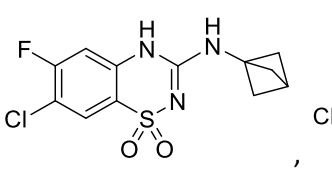
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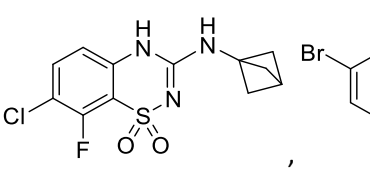
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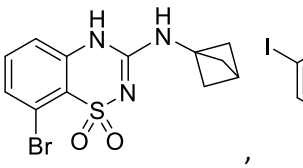
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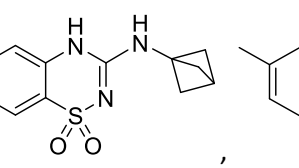
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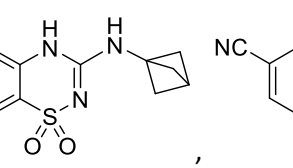
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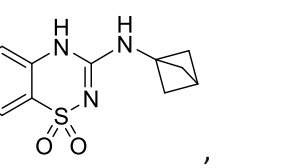
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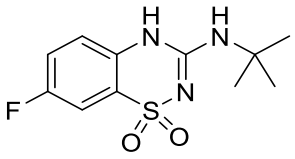
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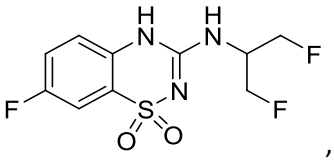
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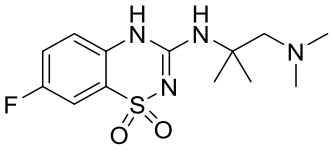
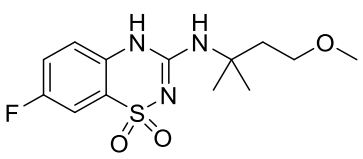
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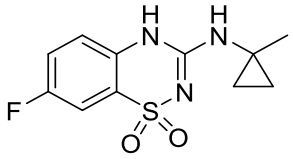
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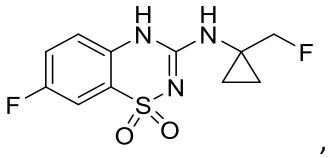
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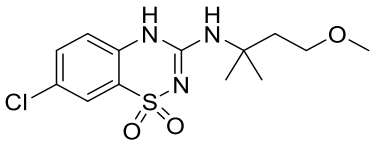
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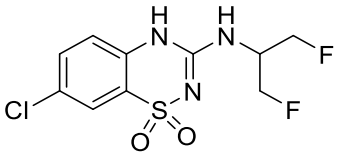
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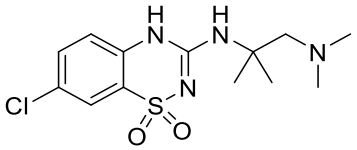
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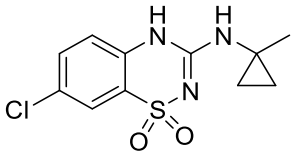
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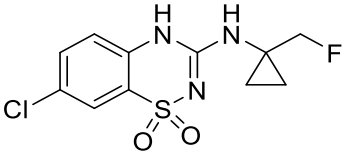
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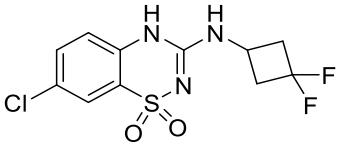
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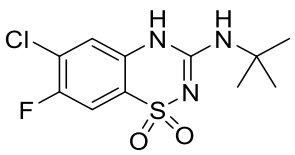
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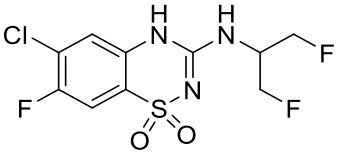
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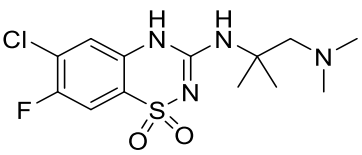
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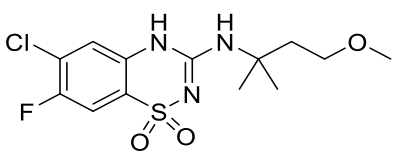
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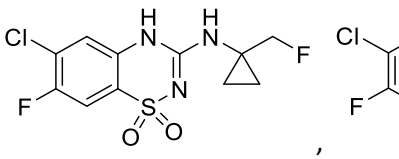
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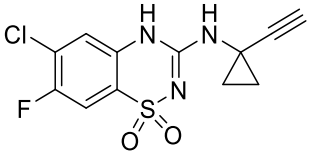
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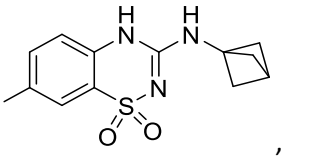
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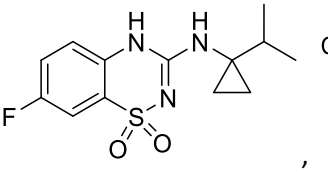
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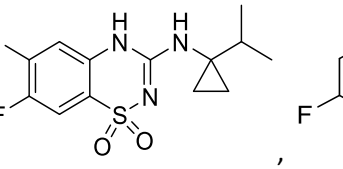
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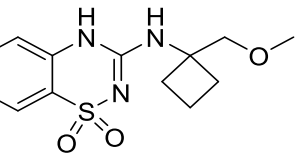
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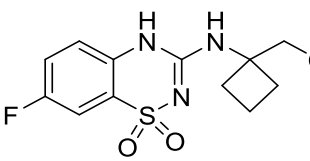
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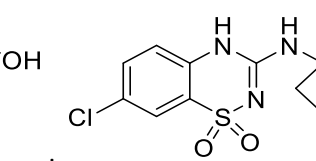
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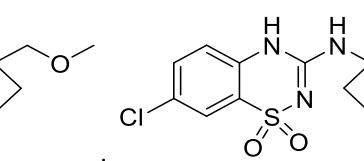
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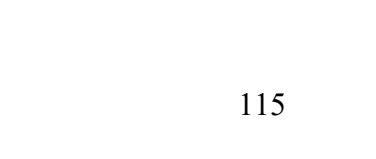
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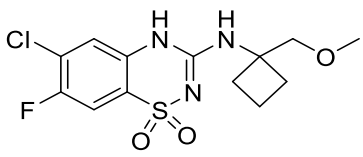
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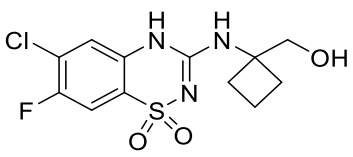
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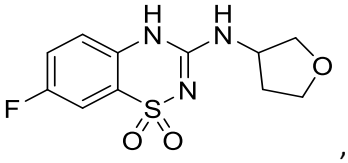
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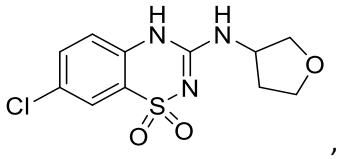
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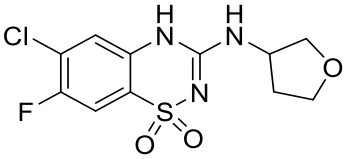
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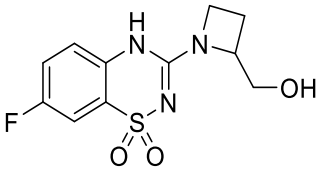
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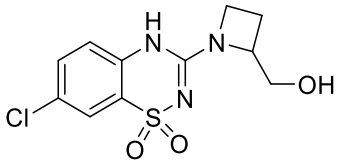
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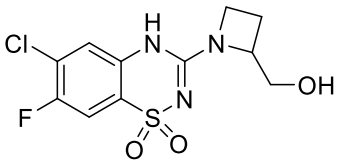
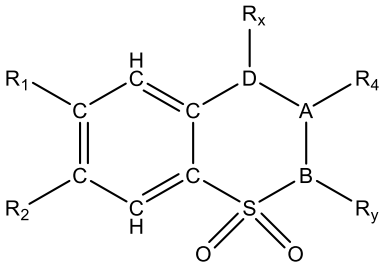

, or a pharmaceutically acceptable salt thereof.

15. A pharmaceutical composition comprising a compound of any one of the preceding claims and a pharmaceutically acceptable excipient.

16. Use of a compound or a pharmaceutically acceptable salt thereof of any one of claims 1-14 or a pharmaceutical composition of claim 15 in the manufacture of a medicament for treating a disease or disorder in a subject, wherein the disease or disorder is selected from a metabolic disorder (e.g., CHI), cancer, a neurological disorder, a cardiovascular disorder, a pulmonary disorder, an integumentary disorder, a sexual disorder, a urinary disorder, or a symptom thereof.

17. A process for preparing compounds according to any one of the preceding claims, wherein said process comprises the steps of:

a) providing a first compound according to formula (X)

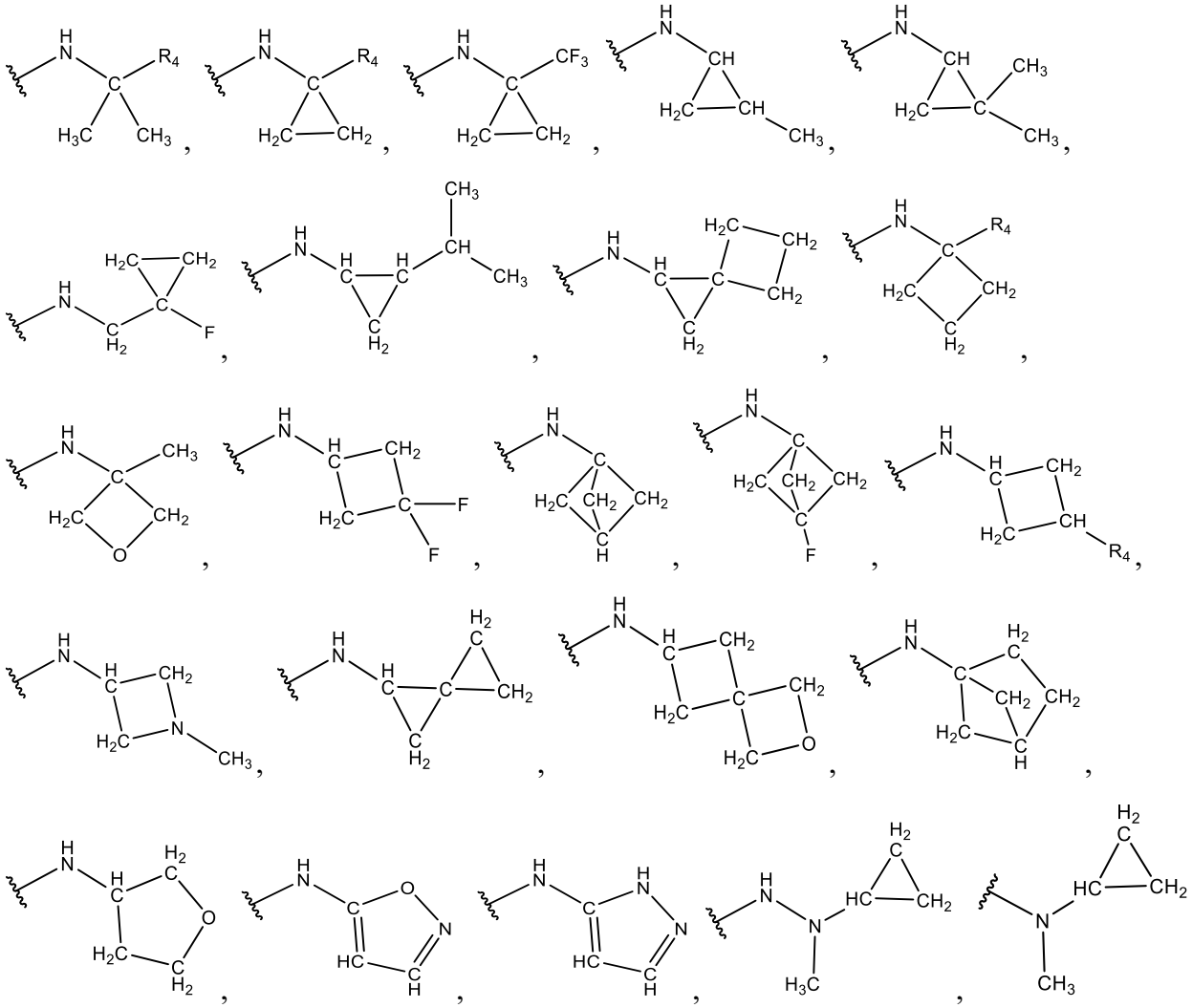


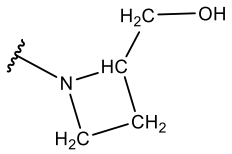
(X)

wherein:

- A is carbon (C);
- B and D are Nitrogen (N); and
- wherein A and B or A and D are connected via a double or single bond; and
- wherein R_1 and R_2 are independently selected from the group consisting of hydrogen, fluorine, chlorine, bromine and iodine; and
- wherein A and B form a double bond, R_x is H or wherein A and D form a double bond, R_y is H and
- wherein R_4 is independently selected from the group consisting of fluorine, chlorine, bromine and iodine, preferably chlorine:

b) providing a second compound according to formula H-R_3, wherein R_3 is selected from the group consisting of:



and 

and wherein R_4 is selected from the group consisting of C1-C3 alkyl optionally substituted with one to two substituents selected from the group consisting of fluoro and hydroxy, ethynyl, C1-C2 alkoxy, (methoxy)-C1-C2 alkyl, cyano, fluoro, (methylsulfonyl)-C1-C2 alkyl, (dimethylamino)-C1-C2 alkyl and n-methyl carbamoyl;

c) reacting said first compound with said second compound under conditions that result in the formation of a compound of any one of the claims 1-14.