

3,3-DIFLUOROPIPERIDINE CARBAMATE HETEROCYCLIC COMPOUNDS AS NR2B NMDA RECEPTOR ANTAGONISTS

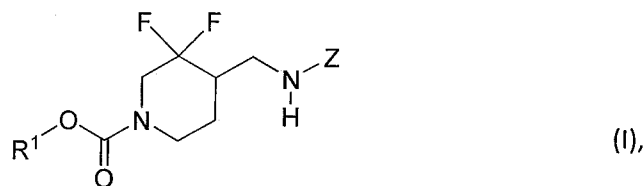
BACKGROUND

[001] Non-selective NMDA receptor antagonists, originally developed in stroke and head trauma, have more recently shown clinical efficacy in treating depression. The non-selective NMDA receptor antagonist, ketamine, has been shown to have rapid onset and efficacy in depression resistant to standard monoamine reuptake inhibitor therapy (Mathews and Zarate, 2013, *J. Clin. Psychiatry* 74:516-158). However, non-selective NMDA receptor antagonists such as ketamine have a range of undesirable pharmacological activities which limit application in humans. In particular dissociative or psychogenic side effects are particularly prominent for non-selective NMDA receptor antagonists. More recently, NR2B subtype selective NMDA receptor antagonists have demonstrated potential in a wide range of clinical indications. In particular, NR2B antagonists have also demonstrated antidepressant activity in early stage clinical trials (Ibrahim et al., 2012, *J. Clin. Psychopharmacol.* 32, 551-557; Preskorn et al., 2008, *J. Clin. Psychopharmacol.* 28, 631-637). Furthermore, selective NR2B antagonists have advantages over unselective NMDA receptor antagonists such as ketamine due to greatly diminished dissociative side effects. However, NR2B antagonists described to date have generally exhibited drawbacks with regard to other drug properties which have limited potential use in human drug therapy.

SUMMARY

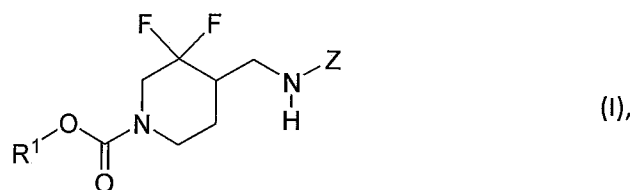
[002] For broad scope of application and safe human use in a range of clinical indications including depression, improved NR2B subtype selective antagonists are needed. The present disclosure, among other things, addresses the need for NR2B receptor antagonists that are improved in one or more aspects exemplified by pharmacokinetic performance, oral activity, cardiovascular safety, and *in vitro* and *in vivo* therapeutic safety index measures.

[003] In some embodiments, the present disclosure encompasses the insight that chemical entities of Formula (I):



wherein R^1 and Z are defined herein, are NR2B subtype selective receptor antagonists. Chemical entities of Formula (I), and pharmaceutically acceptable compositions thereof, are useful for treating a variety of diseases and disorders associated with NR2B receptor antagonism. Such diseases and disorders include those described herein.

[003a] In a first aspect of the present disclosure, there is provided a chemical entity, which is a compound of Formula (I):

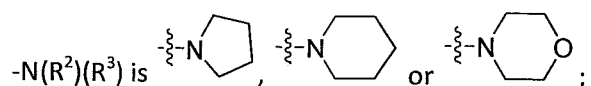


wherein:

R^1 is alkyl, cycloalkyl, (cycloalkyl)alkyl, heterocyclyl, (heterocyclyl)alkyl, aryl, (aryl)alkyl, heteroaryl or (heteroaryl)alkyl,

wherein each of cycloalkyl, (cycloalkyl)alkyl, heterocyclyl, (heterocyclyl)alkyl, aryl, (aryl)alkyl, heteroaryl and (heteroaryl)alkyl is independently optionally substituted with 1 to 3 groups independently selected from -F, -Cl, C_1 - C_4 alkyl, cyclopropyl, $-C\equiv CH$, $-CFH_2$, $-CF_2H$, $-CF_3$, $-CF_2CH_3$, $-CH_2CF_3$, C_1 - C_4 alkoxy, $-OCFH_2$, $-OCF_2H$, $-OCF_3$, -CN, $-N(R^2)(R^3)$, $-NO_2$, C_1 - C_4 alkylthio, C_1 - C_4 alkylsulfonyl and $-S(O)_2CF_3$;

wherein each instance of R^2 and R^3 independently is -H or C_1 - C_4 alkyl, or



Z is 5- or 6-membered monocyclic or 9- or 10-membered bicyclic heteroaryl having ring carbon atoms, 1 nitrogen ring atom and 0-3 additional ring heteroatoms independently selected from N,

O and S, which is optionally substituted with 1 or 2 R^x groups and optionally substituted with 1 R^a group, wherein each R^x is attached to a ring carbon atom and R^a is attached to a ring nitrogen atom;

wherein:

each instance of R^x independently is -F, -Cl, -CH₃, -CFH₂, -CF₂H, -CF₃, -OH, -OCH₃, -OCF₃ or -CN; and

R^a is hydrogen, C₁₋₄ alkyl, C₃₋₄ cycloalkyl or -S(O)₂-C₁₋₄ alkyl.

[003b] In a second aspect of the present disclosure, there is provided a pharmaceutical composition comprising the chemical entity of the first aspect and a pharmaceutically acceptable carrier.

[003c] In a third aspect of the present disclosure, there is provided a chemical entity of the first aspect for use in treating a disease or disorder responsive to NR2B antagonism.

[003d] In a fourth aspect of the present disclosure, there is provided a use of a chemical entity of the first aspect in the manufacture of a medicament for treating a disease or disorder responsive to NR2B antagonism.

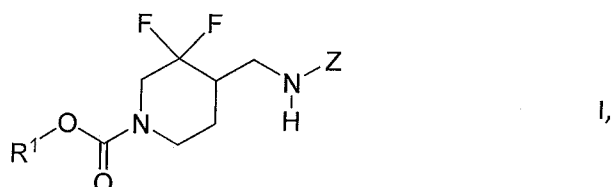
BRIEF DESCRIPTION OF THE DRAWING

[004] FIG. 1A shows results of the Forced Swim Test in mice as described in Example 2.4.1 with compound E1-1.2. FIG. 1B shows results of the Forced Swim Test in mice as described in Example 2.4.2 with compound E1-8.2 by i.p. administration. FIG. 1C shows results of the Forced Swim Test in mice as described in Example 2.4.3 with compound E1-21.26 by i.p. administration. FIG. 1D shows results of the Forced Swim Test in mice as described in Example 2.4.4 with compound E1-1.2 by oral (p.o.) administration. FIG. 1E shows results of the Forced Swim Test in rats as described in Example 2.4.5 with compound E1-1.2 by i.p. administration. FIG. 1F shows results of the Forced Swim Test in rats as described in Example 2.4.6 with compound E1-21.26 by p.o. administration. FIG. 1G shows results of the Forced Swim Test as described in Example 2.4.7 with compound E1-1.2.

- [005] FIG. 2 shows results of the Electroconvulsive Threshold Test (ECT) as described in Example 2.5.1 with compound E1-1.2.
- [006] FIG. 3 shows results of the Electroconvulsive Threshold Test (ECT) as described in Example 2.5.2 with compound E1-8.2.
- [007] FIG. 4 shows results of the Electroconvulsive Threshold Test (ECT) as described in Example 2.5.3 with compound E1-21.26.
- [008] FIG. 5A shows the number of animals showing clonic convulsions in the Pentylenetetrazole (PTZ) Seizure Test as described in Example 2.6.1 with compound E1-1.2. FIG. 5B shows the number of animals showing tonic convulsions in the PTZ Seizure Test with compound E1-1.2. FIG. 5C shows

WHAT IS CLAIMED IS:

1. A chemical entity, which is a compound of formula I:

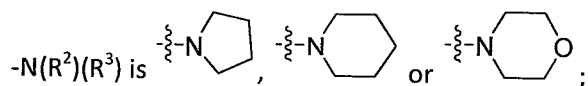


wherein:

R¹ is alkyl, cycloalkyl, (cycloalkyl)alkyl, heterocyclyl, (heterocyclyl)alkyl, aryl, (aryl)alkyl, heteroaryl or (heteroaryl)alkyl,

wherein each of cycloalkyl, (cycloalkyl)alkyl, heterocyclyl, (heterocyclyl)alkyl, aryl, (aryl)alkyl, heteroaryl and (heteroaryl)alkyl is independently optionally substituted with 1 to 3 groups independently selected from -F, -Cl, C₁-C₄ alkyl, cyclopropyl, -C≡CH, -CFH₂, -CF₂H, -CF₃, -CF₂CH₃, -CH₂CF₃, C₁-C₄ alkoxy, -OCFH₂, -OCF₂H, -OCF₃, -CN, -N(R²)(R³), -NO₂, C₁-C₄ alkylthio, C₁-C₄ alkylsulfonyl and -S(O)₂CF₃;

wherein each instance of R² and R³ independently is -H or C₁-C₄ alkyl, or



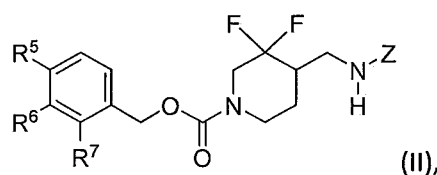
Z is 5- or 6-membered monocyclic or 9- or 10-membered bicyclic heteroaryl having ring carbon atoms, 1 nitrogen ring atom and 0-3 additional ring heteroatoms independently selected from N, O and S, which is optionally substituted with 1 or 2 R^x groups and optionally substituted with 1 R^a group, wherein each R^x is attached to a ring carbon atom and R^a is attached to a ring nitrogen atom;

wherein:

each instance of R^x independently is -F, -Cl, -CH₃, -CFH₂, -CF₂H, -CF₃, -OH, -OCH₃, -OCF₃ or -CN; and

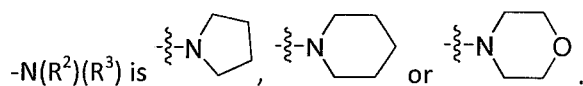
R^a is hydrogen, C₁₋₄ alkyl, C₃₋₄ cycloalkyl or -S(O)₂-C₁₋₄ alkyl.

2. The chemical entity of claim 1, wherein Z is a 9-membered optionally substituted bicyclic heteraromatic ring system having ring carbon atoms and 2 ring nitrogen heteroatoms.
3. The chemical entity of claim 1, wherein Z is a 9-membered optionally substituted bicyclic heteraromatic ring system having ring carbon atoms and 3 ring nitrogen heteroatoms.
4. The chemical entity of claim 1, wherein Z is a 9-membered optionally substituted bicyclic heteraromatic ring system having ring carbon atoms and 4 ring nitrogen heteroatoms.
5. The chemical entity of claim 1, wherein Z is a 6-membered optionally substituted monocyclic heteraromatic ring system having ring carbon atoms, 1 ring nitrogen atom and 0 or 1 additional ring nitrogen atoms.
6. The chemical entity of claim 5, wherein Z is a 6-membered optionally substituted monocyclic heteraromatic ring system having ring carbon atoms and 2 ring nitrogen atoms.
7. The chemical entity of claim 6, wherein Z is a 6-membered monocyclic heteraromatic ring system having ring carbon atoms and 2 ring nitrogen atoms, wherein Z is optionally substituted with 1 or 2 R^x groups.
8. The chemical entity of claim 7, wherein Z is a 6-membered monocyclic heteraromatic ring system having ring carbon atoms and 2 ring nitrogen atoms, wherein Z is substituted with 1 or 2 R^x groups.
9. The chemical entity of claim 8, wherein Z is a 6-membered monocyclic heteraromatic ring system having ring carbon atoms and 2 ring nitrogen atoms, wherein Z is substituted with 1 R^x group.
10. The chemical entity of claim 7, wherein R^x is selected from -CH₃, -CFH₂, -CF₂H, or -CF₃.
11. The chemical entity of claim 1, wherein R¹ is optionally substituted (aryl)alkyl.
12. The chemical entity of claim 11, wherein R¹ is optionally substituted benzyl.
13. The chemical entity of claim 12 of formula (II):



wherein R^5 , R^6 and R^7 independently are -H, -F, -Cl, C₁-C₄ alkyl, cyclopropyl, -C≡CH, -CFH₂, -CF₂H, -CF₃, -CF₂CH₃, -CH₂CF₃, C₁-C₄ alkoxy, -OCFH₂, -OCF₂H, -OCF₃, -CN, -N(R²)(R³), -NO₂, C₁-C₄ alkylthio, C₁-C₄ alkylsulfonyl or -S(O)₂CF₃;

wherein each instance of R² and R³ independently is -H or C₁-C₄ alkyl, or

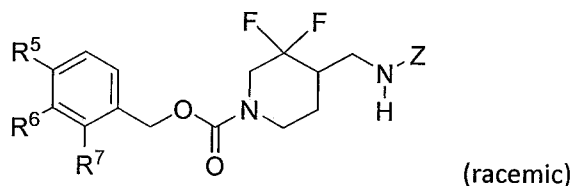


14. The chemical entity of claim 13, wherein each of R⁵, R⁶ and R⁷ independently is -H, -F, -Cl, -CH₃, -CFH₂, -CF₂H, -CF₃, -CH₂CH₃, -CF₂CH₃, -CH₂CF₃, isopropyl, *tert*-butyl, cyclopropyl, -OCF₃, -OCF₂H, -SCH₃, -SCH₂CH₃, -S(O)₂CH₃, -S(O)₂CH₂CH₃, -S(O)₂CF₃ or -C≡CH.
15. The chemical entity of claim 14, wherein each of R⁵, R⁶ and R⁷ independently is -H, -F, -Cl, -CH₃, -CFH₂, -CF₂H, -CF₃, -CH₂CH₃, -CF₂CH₃, -CH₂CF₃, cyclopropyl, -OCF₃, -OCF₂H, -SCH₃, -S(O)₂CH₃ or -C≡CH.
16. The chemical entity of claim 15, wherein:
 R^5 is -H, -F, -Cl, -CH₃, -CFH₂, -CF₂H, -CF₃, -CH₂CH₃, -CF₂CH₃, -CH₂CF₃, cyclopropyl, -OCF₃, -OCF₂H, -SCH₃, -S(O)₂CH₃ or -C≡CH;
 R^6 is -H or -F; and
 R^7 is -H, -F, -Cl or -CH₃.
17. The chemical entity of claim 13, wherein Z is Z1, Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9, Z10, Z11, Z12, Z13, Z14, Z15, Z16, Z17, Z18, Z19, or Z20.
18. The chemical entity of claim 17, wherein Z is Z1, Z2, Z5, Z6, Z8, Z17 or Z19.
19. The chemical entity of claim 13, wherein Z is Z21, Z22, Z23, Z24, Z25, Z26, Z27, Z28, Z29, Z30, Z31, Z32, Z33, Z34, Z35 or Z36.
20. The chemical entity of claim 19, wherein Z is Z21, Z22, Z24, Z29, Z30, Z35 or Z36.
21. A pharmaceutical composition comprising the chemical entity of claim 1 and a pharmaceutically acceptable carrier.
22. The pharmaceutical composition of claim 21, which is suitable for oral administration.

23. A chemical entity of claim 1 for use in treating a disease or disorder responsive to NR2B antagonism.
24. Use of a chemical entity of claim 1 in the manufacture of a medicament for treating a disease or disorder responsive to NR2B antagonism.
25. The use of claim 24, wherein the disease or disorder is depression, pain, Parkinson's disease, Huntington's disease, Alzheimer's disease, cerebral ischaemia, traumatic brain injury, epilepsy or migraine.
26. The use of claim 25, wherein the disease or disorder is depression.

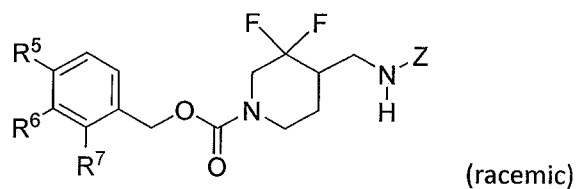
27. The chemical entity of claim 1 selected from the group consisting of:

Table 1.C



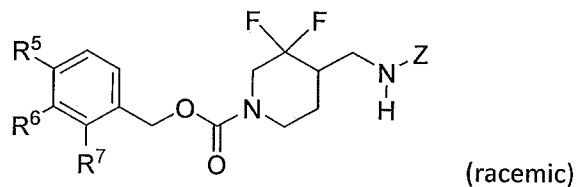
compound	Z	R ⁵	R ⁶	R ⁷
C-1.1	Z1	H	H	H
C-1.2	Z1	CH ₃	H	H
C-1.3	Z1	Cl	H	H
C-1.4	Z1	F	H	H
C-1.5	Z1	CH ₂ CH ₃	H	H
C-1.6	Z1	CF ₂ H	H	H
C-1.7	Z1	CH ₂ F	H	H
C-1.8	Z1	CF ₃	H	H
C-1.9	Z1	CF ₂ CH ₃	H	H
C-1.10	Z1	CH ₂ CF ₃	H	H
C-1.11	Z1	cyclopropyl	H	H
C-1.12	Z1	OCF ₃	H	H
C-1.13	Z1	OCF ₂ H	H	H
C-1.14	Z1	Cl	H	F
C-1.15	Z1	CH ₃	H	F
C-1.16	Z1	CH ₃	F	H
C-1.17	Z1	Cl	F	H
C-1.18	Z1	F	F	H
C-1.19	Z1	F	H	F
C-1.20	Z1	F	H	Cl
C-1.21	Z1	F	H	CH ₃
C-1.22	Z1	Cl	H	CH ₃
C-1.23	Z1	SCH ₃	H	H
C-1.24	Z1	SO ₂ CH ₃	H	H
C-1.25	Z1	ethynyl	H	H
C-2.1	Z2	H	H	H

Table 1.C



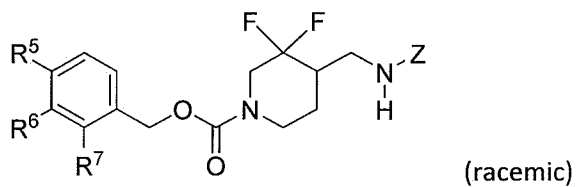
compound	Z	R ⁵	R ⁶	R ⁷
C-2.2	Z2	CH ₃	H	H
C-2.3	Z2	Cl	H	H
C-2.4	Z2	F	H	H
C-2.5	Z2	CH ₂ CH ₃	H	H
C-2.6	Z2	CF ₂ H	H	H
C-2.7	Z2	CH ₂ F	H	H
C-2.8	Z2	CF ₃	H	H
C-2.9	Z2	CF ₂ CH ₃	H	H
C-2.10	Z2	CH ₂ CF ₃	H	H
C-2.11	Z2	cyclopropyl	H	H
C-2.12	Z2	OCF ₃	H	H
C-2.13	Z2	OCF ₂ H	H	H
C-2.14	Z2	Cl	H	F
C-2.15	Z2	CH ₃	H	F
C-2.16	Z2	CH ₃	F	H
C-2.17	Z2	Cl	F	H
C-2.18	Z2	F	F	H
C-2.19	Z2	F	H	F
C-2.20	Z2	F	H	Cl
C-2.21	Z2	F	H	CH ₃
C-2.22	Z2	Cl	H	CH ₃
C-2.23	Z2	SCH ₃	H	H
C-2.24	Z2	SO ₂ CH ₃	H	H
C-2.25	Z2	ethynyl	H	H
C-3.1	Z3	H	H	H
C-3.2	Z3	CH ₃	H	H
C-3.3	Z3	Cl	H	H

Table 1.C



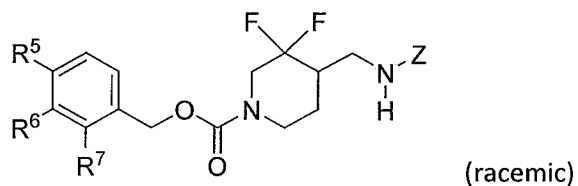
compound	Z	R ⁵	R ⁶	R ⁷
C-3.4	Z3	F	H	H
C-3.5	Z3	CH ₂ CH ₃	H	H
C-3.6	Z3	CF ₂ H	H	H
C-3.7	Z3	CH ₂ F	H	H
C-3.8	Z3	CF ₃	H	H
C-3.9	Z3	CF ₂ CH ₃	H	H
C-3.10	Z3	CH ₂ CF ₃	H	H
C-3.11	Z3	cyclopropyl	H	H
C-3.12	Z3	OCF ₃	H	H
C-3.13	Z3	OCF ₂ H	H	H
C-3.14	Z3	Cl	H	F
C-3.15	Z3	CH ₃	H	F
C-3.16	Z3	CH ₃	F	H
C-3.17	Z3	Cl	F	H
C-3.18	Z3	F	F	H
C-3.19	Z3	F	H	F
C-3.20	Z3	F	H	Cl
C-3.21	Z3	F	H	CH ₃
C-3.22	Z3	Cl	H	CH ₃
C-3.23	Z3	SCH ₃	H	H
C-3.24	Z3	SO ₂ CH ₃	H	H
C-3.25	Z3	ethynyl	H	H
C-4.1	Z4	H	H	H
C-4.2	Z4	CH ₃	H	H
C-4.3	Z4	Cl	H	H
C-4.4	Z4	F	H	H
C-4.5	Z4	CH ₂ CH ₃	H	H

Table 1.C



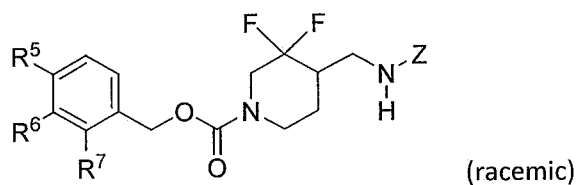
compound	Z	R ⁵	R ⁶	R ⁷
C-4.6	Z4	CF ₂ H	H	H
C-4.7	Z4	CH ₂ F	H	H
C-4.8	Z4	CF ₃	H	H
C-4.9	Z4	CF ₂ CH ₃	H	H
C-4.10	Z4	CH ₂ CF ₃	H	H
C-4.11	Z4	cyclopropyl	H	H
C-4.12	Z4	OCF ₃	H	H
C-4.13	Z4	OCF ₂ H	H	H
C-4.14	Z4	Cl	H	F
C-4.15	Z4	CH ₃	H	F
C-4.16	Z4	CH ₃	F	H
C-4.17	Z4	Cl	F	H
C-4.18	Z4	F	F	H
C-4.19	Z4	F	H	F
C-4.20	Z4	F	H	Cl
C-4.21	Z4	F	H	CH ₃
C-4.22	Z4	Cl	H	CH ₃
C-4.23	Z4	SCH ₃	H	H
C-4.24	Z4	SO ₂ CH ₃	H	H
C-4.25	Z4	ethynyl	H	H
C-5.1	Z5	H	H	H
C-5.2	Z5	CH ₃	H	H
C-5.3	Z5	Cl	H	H
C-5.4	Z5	F	H	H
C-5.5	Z5	CH ₂ CH ₃	H	H
C-5.6	Z5	CF ₂ H	H	H
C-5.7	Z5	CH ₂ F	H	H

Table 1.C



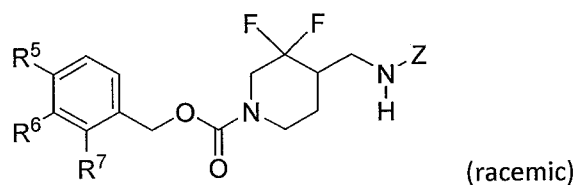
compound	Z	R ⁵	R ⁶	R ⁷
C-5.8	Z5	CF ₃	H	H
C-5.9	Z5	CF ₂ CH ₃	H	H
C-5.10	Z5	CH ₂ CF ₃	H	H
C-5.11	Z5	cyclopropyl	H	H
C-5.12	Z5	OCF ₃	H	H
C-5.13	Z5	OCF ₂ H	H	H
C-5.14	Z5	Cl	H	F
C-5.15	Z5	CH ₃	H	F
C-5.16	Z5	CH ₃	F	H
C-5.17	Z5	Cl	F	H
C-5.18	Z5	F	F	H
C-5.19	Z5	F	H	F
C-5.20	Z5	F	H	Cl
C-5.21	Z5	F	H	CH ₃
C-5.22	Z5	Cl	H	CH ₃
C-5.23	Z5	SCH ₃	H	H
C-5.24	Z5	SO ₂ CH ₃	H	H
C-5.25	Z5	ethynyl	H	H
C-6.1	Z6, R ^a is H	H	H	H
C-6.2	Z6, R ^a is H	CH ₃	H	H
C-6.3	Z6, R ^a is H	Cl	H	H
C-6.4	Z6, R ^a is H	F	H	H
C-6.5	Z6, R ^a is H	CH ₂ CH ₃	H	H
C-6.6	Z6, R ^a is H	CF ₂ H	H	H
C-6.7	Z6, R ^a is H	CH ₂ F	H	H
C-6.8	Z6, R ^a is H	CF ₃	H	H
C-6.9	Z6, R ^a is H	CF ₂ CH ₃	H	H

Table 1.C



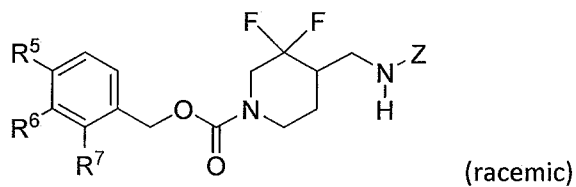
compound	Z	R ⁵	R ⁶	R ⁷
C-6.10	Z6, R ^a is H	CH ₂ CF ₃	H	H
C-6.11	Z6, R ^a is H	cyclopropyl	H	H
C-6.12	Z6, R ^a is H	OCF ₃	H	H
C-6.13	Z6, R ^a is H	OCF ₂ H	H	H
C-6.14	Z6, R ^a is H	Cl	H	F
C-6.15	Z6, R ^a is H	CH ₃	H	F
C-6.16	Z6, R ^a is H	CH ₃	F	H
C-6.17	Z6, R ^a is H	Cl	F	H
C-6.18	Z6, R ^a is H	F	F	H
C-6.19	Z6, R ^a is H	F	H	F
C-6.20	Z6, R ^a is H	F	H	Cl
C-6.21	Z6, R ^a is H	F	H	CH ₃
C-6.22	Z6, R ^a is H	Cl	H	CH ₃
C-6.23	Z6, R ^a is H	SCH ₃	H	H
C-6.24	Z6, R ^a is H	SO ₂ CH ₃	H	H
C-6.25	Z6, R ^a is H	ethynyl	H	H
C-7.1	Z7, R ^a is H	H	H	H
C-7.2	Z7, R ^a is H	CH ₃	H	H
C-7.3	Z7, R ^a is H	Cl	H	H
C-7.4	Z7, R ^a is H	F	H	H
C-7.5	Z7, R ^a is H	CH ₂ CH ₃	H	H
C-7.6	Z7, R ^a is H	CF ₂ H	H	H
C-7.7	Z7, R ^a is H	CH ₂ F	H	H
C-7.8	Z7, R ^a is H	CF ₃	H	H
C-7.9	Z7, R ^a is H	CF ₂ CH ₃	H	H
C-7.10	Z7, R ^a is H	CH ₂ CF ₃	H	H
C-7.11	Z7, R ^a is H	cyclopropyl	H	H

Table 1.C



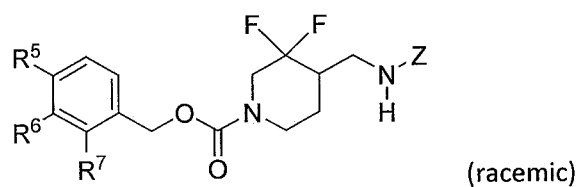
compound	Z	R ⁵	R ⁶	R ⁷
C-7.12	Z7, R ^a is H	OCF ₃	H	H
C-7.13	Z7, R ^a is H	OCF ₂ H	H	H
C-7.14	Z7, R ^a is H	Cl	H	F
C-7.15	Z7, R ^a is H	CH ₃	H	F
C-7.16	Z7, R ^a is H	CH ₃	F	H
C-7.17	Z7, R ^a is H	Cl	F	H
C-7.18	Z7, R ^a is H	F	F	H
C-7.19	Z7, R ^a is H	F	H	F
C-7.20	Z7, R ^a is H	F	H	Cl
C-7.21	Z7, R ^a is H	F	H	CH ₃
C-7.22	Z7, R ^a is H	Cl	H	CH ₃
C-7.23	Z7, R ^a is H	SCH ₃	H	H
C-7.24	Z7, R ^a is H	SO ₂ CH ₃	H	H
C-7.25	Z7, R ^a is H	ethynyl	H	H
C-8.1	Z8, R ^a is H	H	H	H
C-8.2	Z8, R ^a is H	CH ₃	H	H
C-8.3	Z8, R ^a is H	Cl	H	H
C-8.4	Z8, R ^a is H	F	H	H
C-8.5	Z8, R ^a is H	CH ₂ CH ₃	H	H
C-8.6	Z8, R ^a is H	CF ₂ H	H	H
C-8.7	Z8, R ^a is H	CH ₂ F	H	H
C-8.8	Z8, R ^a is H	CF ₃	H	H
C-8.9	Z8, R ^a is H	CF ₂ CH ₃	H	H
C-8.10	Z8, R ^a is H	CH ₂ CF ₃	H	H
C-8.11	Z8, R ^a is H	cyclopropyl	H	H
C-8.12	Z8, R ^a is H	OCF ₃	H	H
C-8.13	Z8, R ^a is H	OCF ₂ H	H	H

Table 1.C



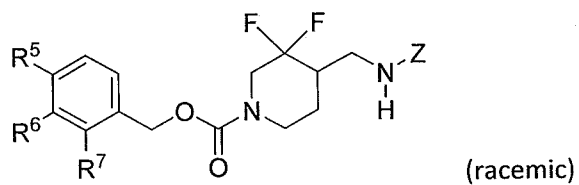
compound	Z	R ⁵	R ⁶	R ⁷
C-8.14	Z8, R ^a is H	Cl	H	F
C-8.15	Z8, R ^a is H	CH ₃	H	F
C-8.16	Z8, R ^a is H	CH ₃	F	H
C-8.17	Z8, R ^a is H	Cl	F	H
C-8.18	Z8, R ^a is H	F	F	H
C-8.19	Z8, R ^a is H	F	H	F
C-8.20	Z8, R ^a is H	F	H	Cl
C-8.21	Z8, R ^a is H	F	H	CH ₃
C-8.22	Z8, R ^a is H	Cl	H	CH ₃
C-8.23	Z8, R ^a is H	SCH ₃	H	H
C-8.24	Z8, R ^a is H	SO ₂ CH ₃	H	H
C-8.25	Z8, R ^a is H	ethynyl	H	H
C-9.1	Z9	H	H	H
C-9.2	Z9	CH ₃	H	H
C-9.3	Z9	Cl	H	H
C-9.4	Z9	F	H	H
C-9.5	Z9	CH ₂ CH ₃	H	H
C-9.6	Z9	CF ₂ H	H	H
C-9.7	Z9	CH ₂ F	H	H
C-9.8	Z9	CF ₃	H	H
C-9.9	Z9	CF ₂ CH ₃	H	H
C-9.10	Z9	CH ₂ CF ₃	H	H
C-9.11	Z9	cyclopropyl	H	H
C-9.12	Z9	OCF ₃	H	H
C-9.13	Z9	OCF ₂ H	H	H
C-9.14	Z9	Cl	H	F
C-9.15	Z9	CH ₃	H	F

Table 1.C



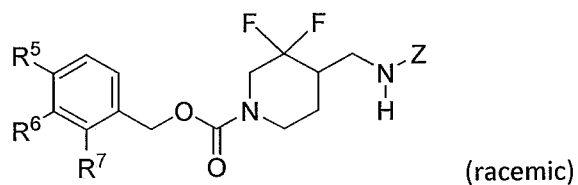
compound	Z	R ⁵	R ⁶	R ⁷
C-9.16	Z9	CH ₃	F	H
C-9.17	Z9	Cl	F	H
C-9.18	Z9	F	F	H
C-9.19	Z9	F	H	F
C-9.20	Z9	F	H	Cl
C-9.21	Z9	F	H	CH ₃
C-9.22	Z9	Cl	H	CH ₃
C-9.23	Z9	SCH ₃	H	H
C-9.24	Z9	SO ₂ CH ₃	H	H
C-9.25	Z9	ethynyl	H	H
C-10.1	Z10	H	H	H
C-10.2	Z10	CH ₃	H	H
C-10.3	Z10	Cl	H	H
C-10.4	Z10	F	H	H
C-10.5	Z10	CH ₂ CH ₃	H	H
C-10.6	Z10	CF ₂ H	H	H
C-10.7	Z10	CH ₂ F	H	H
C-10.8	Z10	CF ₃	H	H
C-10.9	Z10	CF ₂ CH ₃	H	H
C-10.10	Z10	CH ₂ CF ₃	H	H
C-10.11	Z10	cyclopropyl	H	H
C-10.12	Z10	OCF ₃	H	H
C-10.13	Z10	OCF ₂ H	H	H
C-10.14	Z10	Cl	H	F
C-10.15	Z10	CH ₃	H	F
C-10.16	Z10	CH ₃	F	H
C-10.17	Z10	Cl	F	H

Table 1.C



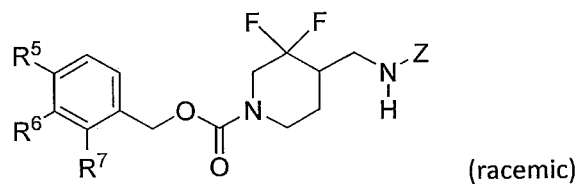
compound	Z	R ⁵	R ⁶	R ⁷
C-10.18	Z10	F	F	H
C-10.19	Z10	F	H	F
C-10.20	Z10	F	H	Cl
C-10.21	Z10	F	H	CH ₃
C-10.22	Z10	Cl	H	CH ₃
C-10.23	Z10	SCH ₃	H	H
C-10.24	Z10	SO ₂ CH ₃	H	H
C-10.25	Z10	ethynyl	H	H
C-11.1	Z11, R ^a is H	H	H	H
C-11.2	Z11, R ^a is H	CH ₃	H	H
C-11.3	Z11, R ^a is H	Cl	H	H
C-11.4	Z11, R ^a is H	F	H	H
C-11.5	Z11, R ^a is H	CH ₂ CH ₃	H	H
C-11.6	Z11, R ^a is H	CF ₂ H	H	H
C-11.7	Z11, R ^a is H	CH ₂ F	H	H
C-11.8	Z11, R ^a is H	CF ₃	H	H
C-11.9	Z11, R ^a is H	CF ₂ CH ₃	H	H
C-11.10	Z11, R ^a is H	CH ₂ CF ₃	H	H
C-11.11	Z11, R ^a is H	cyclopropyl	H	H
C-11.12	Z11, R ^a is H	OCF ₃	H	H
C-11.13	Z11, R ^a is H	OCF ₂ H	H	H
C-11.14	Z11, R ^a is H	Cl	H	F
C-11.15	Z11, R ^a is H	CH ₃	H	F
C-11.16	Z11, R ^a is H	CH ₃	F	H
C-11.17	Z11, R ^a is H	Cl	F	H
C-11.18	Z11, R ^a is H	F	F	H
C-11.19	Z11, R ^a is H	F	H	F

Table 1.C



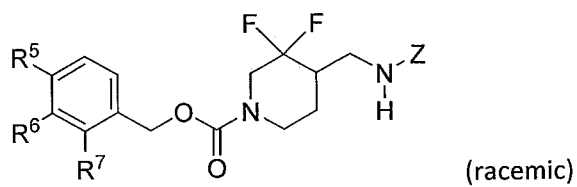
compound	Z	R ⁵	R ⁶	R ⁷
C-11.20	Z11, R ^a is H	F	H	Cl
C-11.21	Z11, R ^a is H	F	H	CH ₃
C-11.22	Z11, R ^a is H	Cl	H	CH ₃
C-11.23	Z11, R ^a is H	SCH ₃	H	H
C-11.24	Z11, R ^a is H	SO ₂ CH ₃	H	H
C-11.25	Z11, R ^a is H	ethynyl	H	H
C-12.1	Z12	H	H	H
C-12.2	Z12	CH ₃	H	H
C-12.3	Z12	Cl	H	H
C-12.4	Z12	F	H	H
C-12.5	Z12	CH ₂ CH ₃	H	H
C-12.6	Z12	CF ₂ H	H	H
C-12.7	Z12	CH ₂ F	H	H
C-12.8	Z12	CF ₃	H	H
C-12.9	Z12	CF ₂ CH ₃	H	H
C-12.10	Z12	CH ₂ CF ₃	H	H
C-12.11	Z12	cyclopropyl	H	H
C-12.12	Z12	OCF ₃	H	H
C-12.13	Z12	OCF ₂ H	H	H
C-12.14	Z12	Cl	H	F
C-12.15	Z12	CH ₃	H	F
C-12.16	Z12	CH ₃	F	H
C-12.17	Z12	Cl	F	H
C-12.18	Z12	F	F	H
C-12.19	Z12	F	H	F
C-12.20	Z12	F	H	Cl
C-12.21	Z12	F	H	CH ₃

Table 1.C



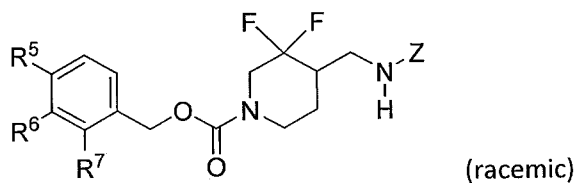
compound	Z	R ⁵	R ⁶	R ⁷
C-12.22	Z12	Cl	H	CH ₃
C-12.23	Z12	SCH ₃	H	H
C-12.24	Z12	SO ₂ CH ₃	H	H
C-12.25	Z12	ethynyl	H	H
C-13.1	Z13, R ^a is H	H	H	H
C-13.2	Z13, R ^a is H	CH ₃	H	H
C-13.3	Z13, R ^a is H	Cl	H	H
C-13.4	Z13, R ^a is H	F	H	H
C-13.5	Z13, R ^a is H	CH ₂ CH ₃	H	H
C-13.6	Z13, R ^a is H	CF ₂ H	H	H
C-13.7	Z13, R ^a is H	CH ₂ F	H	H
C-13.8	Z13, R ^a is H	CF ₃	H	H
C-13.9	Z13, R ^a is H	CF ₂ CH ₃	H	H
C-13.10	Z13, R ^a is H	CH ₂ CF ₃	H	H
C-13.11	Z13, R ^a is H	cyclopropyl	H	H
C-13.12	Z13, R ^a is H	OCF ₃	H	H
C-13.13	Z13, R ^a is H	OCF ₂ H	H	H
C-13.14	Z13, R ^a is H	Cl	H	F
C-13.15	Z13, R ^a is H	CH ₃	H	F
C-13.16	Z13, R ^a is H	CH ₃	F	H
C-13.17	Z13, R ^a is H	Cl	F	H
C-13.18	Z13, R ^a is H	F	F	H
C-13.19	Z13, R ^a is H	F	H	F
C-13.20	Z13, R ^a is H	F	H	Cl
C-13.21	Z13, R ^a is H	F	H	CH ₃
C-13.22	Z13, R ^a is H	Cl	H	CH ₃
C-13.23	Z13, R ^a is H	SCH ₃	H	H

Table 1.C



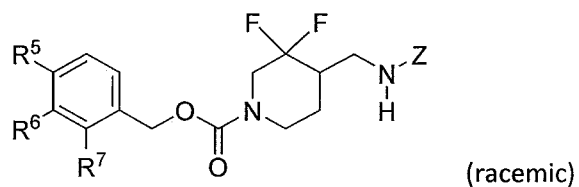
compound	Z	R ⁵	R ⁶	R ⁷
C-13.24	Z13, R ^a is H	SO ₂ CH ₃	H	H
C-13.25	Z13, R ^a is H	ethynyl	H	H
C-14.1	Z14, R ^a is H	H	H	H
C-14.2	Z14, R ^a is H	CH ₃	H	H
C-14.3	Z14, R ^a is H	Cl	H	H
C-14.4	Z14, R ^a is H	F	H	H
C-14.5	Z14, R ^a is H	CH ₂ CH ₃	H	H
C-14.6	Z14, R ^a is H	CF ₂ H	H	H
C-14.7	Z14, R ^a is H	CH ₂ F	H	H
C-14.8	Z14, R ^a is H	CF ₃	H	H
C-14.9	Z14, R ^a is H	CF ₂ CH ₃	H	H
C-14.10	Z14, R ^a is H	CH ₂ CF ₃	H	H
C-14.11	Z14, R ^a is H	cyclopropyl	H	H
C-14.12	Z14, R ^a is H	OCF ₃	H	H
C-14.13	Z14, R ^a is H	OCF ₂ H	H	H
C-14.14	Z14, R ^a is H	Cl	H	F
C-14.15	Z14, R ^a is H	CH ₃	H	F
C-14.16	Z14, R ^a is H	CH ₃	F	H
C-14.17	Z14, R ^a is H	Cl	F	H
C-14.18	Z14, R ^a is H	F	F	H
C-14.19	Z14, R ^a is H	F	H	F
C-14.20	Z14, R ^a is H	F	H	Cl
C-14.21	Z14, R ^a is H	F	H	CH ₃
C-14.22	Z14, R ^a is H	Cl	H	CH ₃
C-14.23	Z14, R ^a is H	SCH ₃	H	H
C-14.24	Z14, R ^a is H	SO ₂ CH ₃	H	H
C-14.25	Z14, R ^a is H	ethynyl	H	H

Table 1.C



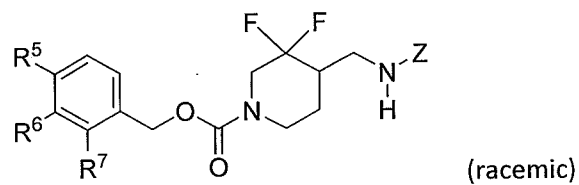
compound	Z	R ⁵	R ⁶	R ⁷
C-15.1	Z15, R ^a is H	H	H	H
C-15.2	Z15, R ^a is H	CH ₃	H	H
C-15.3	Z15, R ^a is H	Cl	H	H
C-15.4	Z15, R ^a is H	F	H	H
C-15.5	Z15, R ^a is H	CH ₂ CH ₃	H	H
C-15.6	Z15, R ^a is H	CF ₂ H	H	H
C-15.7	Z15, R ^a is H	CH ₂ F	H	H
C-15.8	Z15, R ^a is H	CF ₃	H	H
C-15.9	Z15, R ^a is H	CF ₂ CH ₃	H	H
C-15.10	Z15, R ^a is H	CH ₂ CF ₃	H	H
C-15.11	Z15, R ^a is H	cyclopropyl	H	H
C-15.12	Z15, R ^a is H	OCF ₃	H	H
C-15.13	Z15, R ^a is H	OCF ₂ H	H	H
C-15.14	Z15, R ^a is H	Cl	H	F
C-15.15	Z15, R ^a is H	CH ₃	H	F
C-15.16	Z15, R ^a is H	CH ₃	F	H
C-15.17	Z15, R ^a is H	Cl	F	H
C-15.18	Z15, R ^a is H	F	F	H
C-15.19	Z15, R ^a is H	F	H	F
C-15.20	Z15, R ^a is H	F	H	Cl
C-15.21	Z15, R ^a is H	F	H	CH ₃
C-15.22	Z15, R ^a is H	Cl	H	CH ₃
C-15.23	Z15, R ^a is H	SCH ₃	H	H
C-15.24	Z15, R ^a is H	SO ₂ CH ₃	H	H
C-15.25	Z15, R ^a is H	ethynyl	H	H
C-16.1	Z16, R ^a is H	H	H	H
C-16.2	Z16, R ^a is H	CH ₃	H	H

Table 1.C



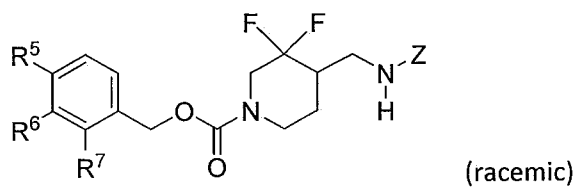
compound	Z	R ⁵	R ⁶	R ⁷
C-16.3	Z16, R ^a is H	Cl	H	H
C-16.4	Z16, R ^a is H	F	H	H
C-16.5	Z16, R ^a is H	CH ₂ CH ₃	H	H
C-16.6	Z16, R ^a is H	CF ₂ H	H	H
C-16.7	Z16, R ^a is H	CH ₂ F	H	H
C-16.8	Z16, R ^a is H	CF ₃	H	H
C-16.9	Z16, R ^a is H	CF ₂ CH ₃	H	H
C-16.10	Z16, R ^a is H	CH ₂ CF ₃	H	H
C-16.11	Z16, R ^a is H	cyclopropyl	H	H
C-16.12	Z16, R ^a is H	OCF ₃	H	H
C-16.13	Z16, R ^a is H	OCF ₂ H	H	H
C-16.14	Z16, R ^a is H	Cl	H	F
C-16.15	Z16, R ^a is H	CH ₃	H	F
C-16.16	Z16, R ^a is H	CH ₃	F	H
C-16.17	Z16, R ^a is H	Cl	F	H
C-16.18	Z16, R ^a is H	F	F	H
C-16.19	Z16, R ^a is H	F	H	F
C-16.20	Z16, R ^a is H	F	H	Cl
C-16.21	Z16, R ^a is H	F	H	CH ₃
C-16.22	Z16, R ^a is H	Cl	H	CH ₃
C-16.23	Z16, R ^a is H	SCH ₃	H	H
C-16.24	Z16, R ^a is H	SO ₂ CH ₃	H	H
C-16.25	Z16, R ^a is H	ethynyl	H	H
C-17.1	Z17	H	H	H
C-17.2	Z17	CH ₃	H	H
C-17.3	Z17	Cl	H	H
C-17.4	Z17	F	H	H

Table 1.C



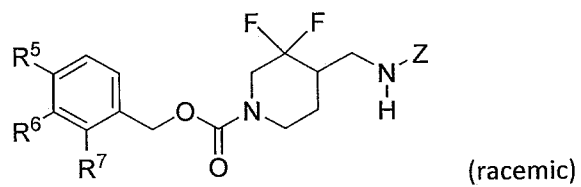
compound	Z	R ⁵	R ⁶	R ⁷
C-17.5	Z17	CH ₂ CH ₃	H	H
C-17.6	Z17	CF ₂ H	H	H
C-17.7	Z17	CH ₂ F	H	H
C-17.8	Z17	CF ₃	H	H
C-17.9	Z17	CF ₂ CH ₃	H	H
C-17.10	Z17	CH ₂ CF ₃	H	H
C-17.11	Z17	cyclopropyl	H	H
C-17.12	Z17	OCF ₃	H	H
C-17.13	Z17	OCF ₂ H	H	H
C-17.14	Z17	Cl	H	F
C-17.15	Z17	CH ₃	H	F
C-17.16	Z17	CH ₃	F	H
C-17.17	Z17	Cl	F	H
C-17.18	Z17	F	F	H
C-17.19	Z17	F	H	F
C-17.20	Z17	F	H	Cl
C-17.21	Z17	F	H	CH ₃
C-17.22	Z17	Cl	H	CH ₃
C-17.23	Z17	SCH ₃	H	H
C-17.24	Z17	SO ₂ CH ₃	H	H
C-17.25	Z17	ethynyl	H	H
C-18.1	Z18	H	H	H
C-18.2	Z18	CH ₃	H	H
C-18.3	Z18	Cl	H	H
C-18.4	Z18	F	H	H
C-18.5	Z18	CH ₂ CH ₃	H	H
C-18.6	Z18	CF ₂ H	H	H

Table 1.C



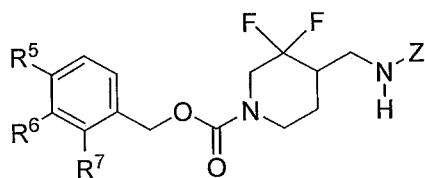
compound	Z	R ⁵	R ⁶	R ⁷
C-18.7	Z18	CH ₂ F	H	H
C-18.8	Z18	CF ₃	H	H
C-18.9	Z18	CF ₂ CH ₃	H	H
C-18.10	Z18	CH ₂ CF ₃	H	H
C-18.11	Z18	cyclopropyl	H	H
C-18.12	Z18	OCF ₃	H	H
C-18.13	Z18	OCF ₂ H	H	H
C-18.14	Z18	Cl	H	F
C-18.15	Z18	CH ₃	H	F
C-18.16	Z18	CH ₃	F	H
C-18.17	Z18	Cl	F	H
C-18.18	Z18	F	F	H
C-18.19	Z18	F	H	F
C-18.20	Z18	F	H	Cl
C-18.21	Z18	F	H	CH ₃
C-18.22	Z18	Cl	H	CH ₃
C-18.23	Z18	SCH ₃	H	H
C-18.24	Z18	SO ₂ CH ₃	H	H
C-18.25	Z18	ethynyl	H	H
C-19.1	Z19	H	H	H
C-19.2	Z19	CH ₃	H	H
C-19.3	Z19	Cl	H	H
C-19.4	Z19	F	H	H
C-19.5	Z19	CH ₂ CH ₃	H	H
C-19.6	Z19	CF ₂ H	H	H
C-19.7	Z19	CH ₂ F	H	H
C-19.8	Z19	CF ₃	H	H

Table 1.C



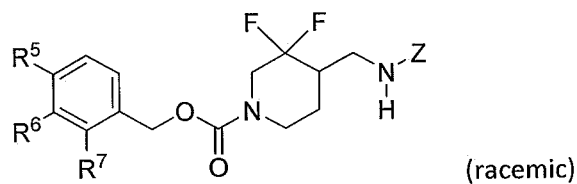
compound	Z	R ⁵	R ⁶	R ⁷
C-19.9	Z19	CF ₂ CH ₃	H	H
C-19.10	Z19	CH ₂ CF ₃	H	H
C-19.11	Z19	cyclopropyl	H	H
C-19.12	Z19	OCF ₃	H	H
C-19.13	Z19	OCF ₂ H	H	H
C-19.14	Z19	Cl	H	F
C-19.15	Z19	CH ₃	H	F
C-19.16	Z19	CH ₃	F	H
C-19.17	Z19	Cl	F	H
C-19.18	Z19	F	F	H
C-19.19	Z19	F	H	F
C-19.20	Z19	F	H	Cl
C-19.21	Z19	F	H	CH ₃
C-19.22	Z19	Cl	H	CH ₃
C-19.23	Z19	SCH ₃	H	H
C-19.24	Z19	SO ₂ CH ₃	H	H
C-19.25	Z19	ethynyl	H	H
C-19.26	Z19	CH ₃	H	H
C-20.1	Z20	H	H	H
C-20.2	Z20	CH ₃	H	H
C-20.3	Z20	Cl	H	H
C-20.4	Z20	F	H	H
C-20.5	Z20	CH ₂ CH ₃	H	H
C-20.6	Z20	CF ₂ H	H	H
C-20.7	Z20	CH ₂ F	H	H
C-20.8	Z20	CF ₃	H	H
C-20.9	Z20	CF ₂ CH ₃	H	H

Table 1.C



compound	Z	R ⁵	R ⁶	R ⁷
C-20.10	Z20	CH ₂ CF ₃	H	H
C-20.11	Z20	cyclopropyl	H	H
C-20.12	Z20	OCF ₃	H	H
C-20.13	Z20	OCF ₂ H	H	H
C-20.14	Z20	Cl	H	F
C-20.15	Z20	CH ₃	H	F
C-20.16	Z20	CH ₃	F	H
C-20.17	Z20	Cl	F	H
C-20.18	Z20	F	F	H
C-20.19	Z20	F	H	F
C-20.20	Z20	F	H	Cl
C-20.21	Z20	F	H	CH ₃
C-20.22	Z20	Cl	H	CH ₃
C-20.23	Z20	SCH ₃	H	H
C-20.24	Z20	SO ₂ CH ₃	H	H
C-20.25	Z20	ethynyl	H	H
C-21.1	Z21	H	H	H
C-21.2	Z21	CH ₃	H	H
C-21.3	Z21	Cl	H	H
C-21.4	Z21	F	H	H
C-21.5	Z21	CH ₂ CH ₃	H	H
C-21.6	Z21	CF ₂ H	H	H
C-21.7	Z21	CH ₂ F	H	H
C-21.8	Z21	CF ₃	H	H
C-21.9	Z21	CF ₂ CH ₃	H	H
C-21.10	Z21	CH ₂ CF ₃	H	H
C-21.11	Z21	cyclopropyl	H	H

Table 1.C



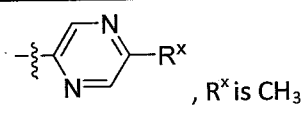
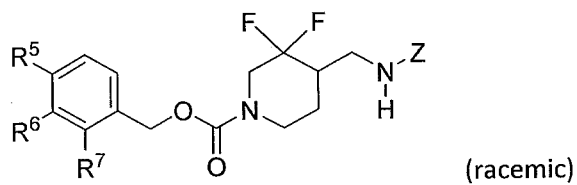
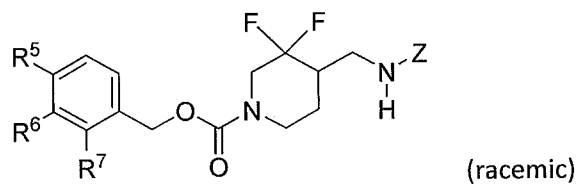
compound	Z	R ⁵	R ⁶	R ⁷
C-21.12	Z21	OCF ₃	H	H
C-21.13	Z21	OCF ₂ H	H	H
C-21.14	Z21	Cl	H	F
C-21.15	Z21	CH ₃	H	F
C-21.16	Z21	CH ₃	F	H
C-21.17	Z21	Cl	F	H
C-21.18	Z21	F	F	H
C-21.19	Z21	F	H	F
C-21.20	Z21	F	H	Cl
C-21.21	Z21	F	H	CH ₃
C-21.22	Z21	Cl	H	CH ₃
C-21.23	Z21	SCH ₃	H	H
C-21.24	Z21	SO ₂ CH ₃	H	H
C-21.25	Z21	ethynyl	H	H
C-21.26		CH ₃	H	H
C-22.1	Z22	H	H	H
C-22.2	Z22	CH ₃	H	H
C-22.3	Z22	Cl	H	H
C-22.4	Z22	F	H	H
C-22.5	Z22	CH ₂ CH ₃	H	H
C-22.6	Z22	CF ₂ H	H	H
C-22.7	Z22	CH ₂ F	H	H
C-22.8	Z22	CF ₃	H	H
C-22.9	Z22	CF ₂ CH ₃	H	H
C-22.10	Z22	CH ₂ CF ₃	H	H

Table 1.C



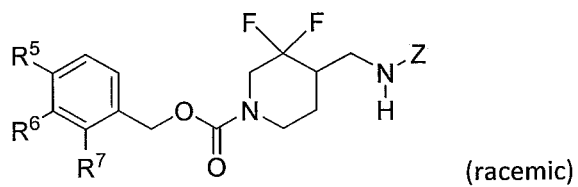
compound	Z	R ⁵	R ⁶	R ⁷
C-22.11	Z22	cyclopropyl	H	H
C-22.12	Z22	OCF ₃	H	H
C-22.13	Z22	OCF ₂ H	H	H
C-22.14	Z22	Cl	H	F
C-22.15	Z22	CH ₃	H	F
C-22.16	Z22	CH ₃	F	H
C-22.17	Z22	Cl	F	H
C-22.18	Z22	F	F	H
C-22.19	Z22	F	H	F
C-22.20	Z22	F	H	Cl
C-22.21	Z22	F	H	CH ₃
C-22.22	Z22	Cl	H	CH ₃
C-22.23	Z22	SCH ₃	H	H
C-22.24	Z22	SO ₂ CH ₃	H	H
C-22.25	Z22	ethynyl	H	H
C-23.1	Z23	H	H	H
C-23.2	Z23	CH ₃	H	H
C-23.3	Z23	Cl	H	H
C-23.4	Z23	F	H	H
C-23.5	Z23	CH ₂ CH ₃	H	H
C-23.6	Z23	CF ₂ H	H	H
C-23.7	Z23	CH ₂ F	H	H
C-23.8	Z23	CF ₃	H	H
C-23.9	Z23	CF ₂ CH ₃	H	H
C-23.10	Z23	CH ₂ CF ₃	H	H
C-23.11	Z23	cyclopropyl	H	H
C-23.12	Z23	OCF ₃	H	H

Table 1.C



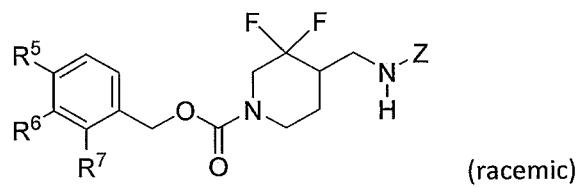
compound	Z	R ⁵	R ⁶	R ⁷
C-23.13	Z23	OCF ₂ H	H	H
C-23.14	Z23	Cl	H	F
C-23.15	Z23	CH ₃	H	F
C-23.16	Z23	CH ₃	F	H
C-23.17	Z23	Cl	F	H
C-23.18	Z23	F	F	H
C-23.19	Z23	F	H	F
C-23.20	Z23	F	H	Cl
C-23.21	Z23	F	H	CH ₃
C-23.22	Z23	Cl	H	CH ₃
C-23.23	Z23	SCH ₃	H	H
C-23.24	Z23	SO ₂ CH ₃	H	H
C-23.25	Z23	ethynyl	H	H
C-24.1	Z24	H	H	H
C-24.2	Z24	CH ₃	H	H
C-24.3	Z24	Cl	H	H
C-24.4	Z24	F	H	H
C-24.5	Z24	CH ₂ CH ₃	H	H
C-24.6	Z24	CF ₂ H	H	H
C-24.7	Z24	CH ₂ F	H	H
C-24.8	Z24	CF ₃	H	H
C-24.9	Z24	CF ₂ CH ₃	H	H
C-24.10	Z24	CH ₂ CF ₃	H	H
C-24.11	Z24	cyclopropyl	H	H
C-24.12	Z24	OCF ₃	H	H
C-24.13	Z24	OCF ₂ H	H	H
C-24.14	Z24	Cl	H	F

Table 1.C



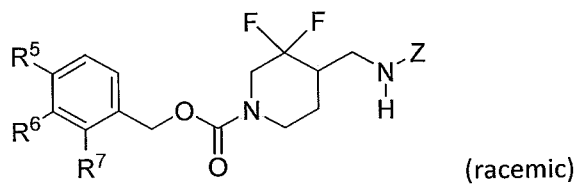
compound	Z	R ⁵	R ⁶	R ⁷
C-24.15	Z24	CH ₃	H	F
C-24.16	Z24	CH ₃	F	H
C-24.17	Z24	Cl	F	H
C-24.18	Z24	F	F	H
C-24.19	Z24	F	H	F
C-24.20	Z24	F	H	Cl
C-24.21	Z24	F	H	CH ₃
C-24.22	Z24	Cl	H	CH ₃
C-24.23	Z24	SCH ₃	H	H
C-24.24	Z24	SO ₂ CH ₃	H	H
C-24.25	Z24	ethynyl	H	H
C-25.1	Z25, R ^a is H	H	H	H
C-25.2	Z25, R ^a is H	CH ₃	H	H
C-25.3	Z25, R ^a is H	Cl	H	H
C-25.4	Z25, R ^a is H	F	H	H
C-25.5	Z25, R ^a is H	CH ₂ CH ₃	H	H
C-25.6	Z25, R ^a is H	CF ₂ H	H	H
C-25.7	Z25, R ^a is H	CH ₂ F	H	H
C-25.8	Z25, R ^a is H	CF ₃	H	H
C-25.9	Z25, R ^a is H	CF ₂ CH ₃	H	H
C-25.10	Z25, R ^a is H	CH ₂ CF ₃	H	H
C-25.11	Z25, R ^a is H	cyclopropyl	H	H
C-25.12	Z25, R ^a is H	OCF ₃	H	H
C-25.13	Z25, R ^a is H	OCF ₂ H	H	H
C-25.14	Z25, R ^a is H	Cl	H	F
C-25.15	Z25, R ^a is H	CH ₃	H	F
C-25.16	Z25, R ^a is H	CH ₃	F	H

Table 1.C



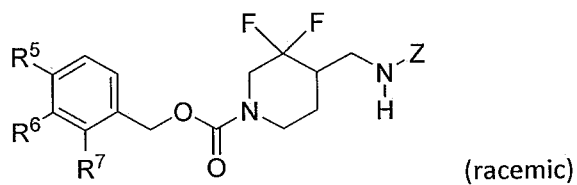
compound	Z	R ⁵	R ⁶	R ⁷
C-25.17	Z25, R ^a is H	Cl	F	H
C-25.18	Z25, R ^a is H	F	F	H
C-25.19	Z25, R ^a is H	F	H	F
C-25.20	Z25, R ^a is H	F	H	Cl
C-25.21	Z25, R ^a is H	F	H	CH ₃
C-25.22	Z25, R ^a is H	Cl	H	CH ₃
C-25.23	Z25, R ^a is H	SCH ₃	H	H
C-25.24	Z25, R ^a is H	SO ₂ CH ₃	H	H
C-25.25	Z25, R ^a is H	ethynyl	H	H
C-26.1	Z26, R ^a is H	H	H	H
C-26.2	Z26, R ^a is H	CH ₃	H	H
C-26.3	Z26, R ^a is H	Cl	H	H
C-26.4	Z26, R ^a is H	F	H	H
C-26.5	Z26, R ^a is H	CH ₂ CH ₃	H	H
C-26.6	Z26, R ^a is H	CF ₂ H	H	H
C-26.7	Z26, R ^a is H	CH ₂ F	H	H
C-26.8	Z26, R ^a is H	CF ₃	H	H
C-26.9	Z26, R ^a is H	CF ₂ CH ₃	H	H
C-26.10	Z26, R ^a is H	CH ₂ CF ₃	H	H
C-26.11	Z26, R ^a is H	cyclopropyl	H	H
C-26.12	Z26, R ^a is H	OCF ₃	H	H
C-26.13	Z26, R ^a is H	OCF ₂ H	H	H
C-26.14	Z26, R ^a is H	Cl	H	F
C-26.15	Z26, R ^a is H	CH ₃	H	F
C-26.16	Z26, R ^a is H	CH ₃	F	H
C-26.17	Z26, R ^a is H	Cl	F	H
C-26.18	Z26, R ^a is H	F	F	H

Table 1.C



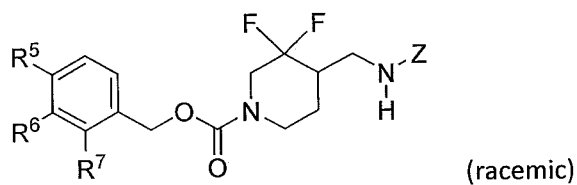
compound	Z	R ⁵	R ⁶	R ⁷
C-26.19	Z26, R ^a is H	F	H	F
C-26.20	Z26, R ^a is H	F	H	Cl
C-26.21	Z26, R ^a is H	F	H	CH ₃
C-26.22	Z26, R ^a is H	Cl	H	CH ₃
C-26.23	Z26, R ^a is H	SCH ₃	H	H
C-26.24	Z26, R ^a is H	SO ₂ CH ₃	H	H
C-26.25	Z26, R ^a is H	ethynyl	H	H
C-27.1	Z27	H	H	H
C-27.2	Z27	CH ₃	H	H
C-27.3	Z27	Cl	H	H
C-27.4	Z27	F	H	H
C-27.5	Z27	CH ₂ CH ₃	H	H
C-27.6	Z27	CF ₂ H	H	H
C-27.7	Z27	CH ₂ F	H	H
C-27.8	Z27	CF ₃	H	H
C-27.9	Z27	CF ₂ CH ₃	H	H
C-27.10	Z27	CH ₂ CF ₃	H	H
C-27.11	Z27	cyclopropyl	H	H
C-27.12	Z27	OCF ₃	H	H
C-27.13	Z27	OCF ₂ H	H	H
C-27.14	Z27	Cl	H	F
C-27.15	Z27	CH ₃	H	F
C-27.16	Z27	CH ₃	F	H
C-27.17	Z27	Cl	F	H
C-27.18	Z27	F	F	H
C-27.19	Z27	F	H	F
C-27.20	Z27	F	H	Cl

Table 1.C



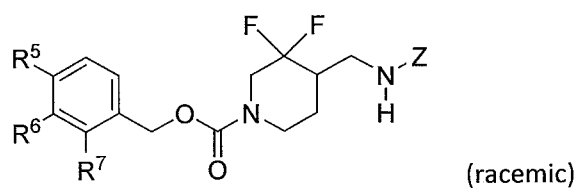
compound	Z	R ⁵	R ⁶	R ⁷
C-27.21	Z27	F	H	CH ₃
C-27.22	Z27	Cl	H	CH ₃
C-27.23	Z27	SCH ₃	H	H
C-27.24	Z27	SO ₂ CH ₃	H	H
C-27.25	Z27	ethynyl	H	H
C-28.1	Z28	H	H	H
C-28.2	Z28	CH ₃	H	H
C-28.3	Z28	Cl	H	H
C-28.4	Z28	F	H	H
C-28.5	Z28	CH ₂ CH ₃	H	H
C-28.6	Z28	CF ₂ H	H	H
C-28.7	Z28	CH ₂ F	H	H
C-28.8	Z28	CF ₃	H	H
C-28.9	Z28	CF ₂ CH ₃	H	H
C-28.10	Z28	CH ₂ CF ₃	H	H
C-28.11	Z28	cyclopropyl	H	H
C-28.12	Z28	OCF ₃	H	H
C-28.13	Z28	OCF ₂ H	H	H
C-28.14	Z28	Cl	H	F
C-28.15	Z28	CH ₃	H	F
C-28.16	Z28	CH ₃	F	H
C-28.17	Z28	Cl	F	H
C-28.18	Z28	F	F	H
C-28.19	Z28	F	H	F
C-28.20	Z28	F	H	Cl
C-28.21	Z28	F	H	CH ₃
C-28.22	Z28	Cl	H	CH ₃

Table 1.C



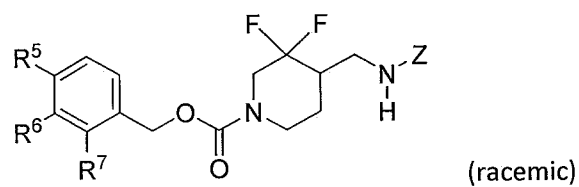
compound	Z	R ⁵	R ⁶	R ⁷
C-28.23	Z28	SCH ₃	H	H
C-28.24	Z28	SO ₂ CH ₃	H	H
C-28.25	Z28	ethynyl	H	H
C-29.1	Z29	H	H	H
C-29.2	Z29	CH ₃	H	H
C-29.3	Z29	Cl	H	H
C-29.4	Z29	F	H	H
C-29.5	Z29	CH ₂ CH ₃	H	H
C-29.6	Z29	CF ₂ H	H	H
C-29.7	Z29	CH ₂ F	H	H
C-29.8	Z29	CF ₃	H	H
C-29.9	Z29	CF ₂ CH ₃	H	H
C-29.10	Z29	CH ₂ CF ₃	H	H
C-29.11	Z29	cyclopropyl	H	H
C-29.12	Z29	OCF ₃	H	H
C-29.13	Z29	OCF ₂ H	H	H
C-29.14	Z29	Cl	H	F
C-29.15	Z29	CH ₃	H	F
C-29.16	Z29	CH ₃	F	H
C-29.17	Z29	Cl	F	H
C-29.18	Z29	F	F	H
C-29.19	Z29	F	H	F
C-29.20	Z29	F	H	Cl
C-29.21	Z29	F	H	CH ₃
C-29.22	Z29	Cl	H	CH ₃
C-29.23	Z29	SCH ₃	H	H
C-29.24	Z29	SO ₂ CH ₃	H	H

Table 1.C



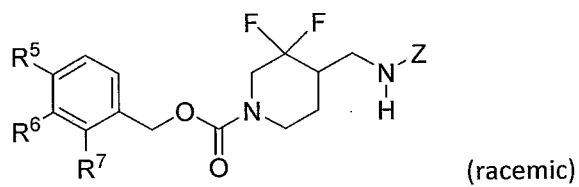
compound	Z	R ⁵	R ⁶	R ⁷
C-29.25	Z29	ethynyl	H	H
C-30.1	Z30	H	H	H
C-30.2	Z30	CH ₃	H	H
C-30.3	Z30	Cl	H	H
C-30.4	Z30	F	H	H
C-30.5	Z30	CH ₂ CH ₃	H	H
C-30.6	Z30	CF ₂ H	H	H
C-30.7	Z30	CH ₂ F	H	H
C-30.8	Z30	CF ₃	H	H
C-30.9	Z30	CF ₂ CH ₃	H	H
C-30.10	Z30	CH ₂ CF ₃	H	H
C-30.11	Z30	cyclopropyl	H	H
C-30.12	Z30	OCF ₃	H	H
C-30.13	Z30	OCF ₂ H	H	H
C-30.14	Z30	Cl	H	F
C-30.15	Z30	CH ₃	H	F
C-30.16	Z30	CH ₃	F	H
C-30.17	Z30	Cl	F	H
C-30.18	Z30	F	F	H
C-30.19	Z30	F	H	F
C-30.20	Z30	F	H	Cl
C-30.21	Z30	F	H	CH ₃
C-30.22	Z30	Cl	H	CH ₃
C-30.23	Z30	SCH ₃	H	H
C-30.24	Z30	SO ₂ CH ₃	H	H
C-30.25	Z30	ethynyl	H	H
C-31.1	Z31	H	H	H

Table 1.C



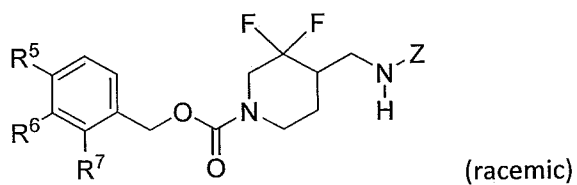
compound	Z	R ⁵	R ⁶	R ⁷
C-31.2	Z31	CH ₃	H	H
C-31.3	Z31	Cl	H	H
C-31.4	Z31	F	H	H
C-31.5	Z31	CH ₂ CH ₃	H	H
C-31.6	Z31	CF ₂ H	H	H
C-31.7	Z31	CH ₂ F	H	H
C-31.8	Z31	CF ₃	H	H
C-31.9	Z31	CF ₂ CH ₃	H	H
C-31.10	Z31	CH ₂ CF ₃	H	H
C-31.11	Z31	cyclopropyl	H	H
C-31.12	Z31	OCF ₃	H	H
C-31.13	Z31	OCF ₂ H	H	H
C-31.14	Z31	Cl	H	F
C-31.15	Z31	CH ₃	H	F
C-31.16	Z31	CH ₃	F	H
C-31.17	Z31	Cl	F	H
C-31.18	Z31	F	F	H
C-31.19	Z31	F	H	F
C-31.20	Z31	F	H	Cl
C-31.21	Z31	F	H	CH ₃
C-31.22	Z31	Cl	H	CH ₃
C-31.23	Z31	SCH ₃	H	H
C-31.24	Z31	SO ₂ CH ₃	H	H
C-31.25	Z31	ethynyl	H	H
C-32.1	Z32	H	H	H
C-32.2	Z32	CH ₃	H	H
C-32.3	Z32	Cl	H	H

Table 1.C



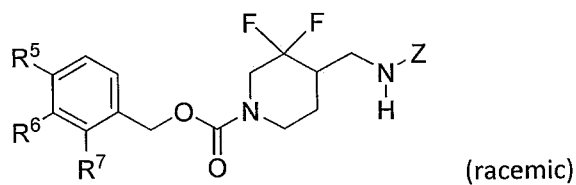
compound	Z	R ⁵	R ⁶	R ⁷
C-32.4	Z32	F	H	H
C-32.5	Z32	CH ₂ CH ₃	H	H
C-32.6	Z32	CF ₂ H	H	H
C-32.7	Z32	CH ₂ F	H	H
C-32.8	Z32	CF ₃	H	H
C-32.9	Z32	CF ₂ CH ₃	H	H
C-32.10	Z32	CH ₂ CF ₃	H	H
C-32.11	Z32	cyclopropyl	H	H
C-32.12	Z32	OCF ₃	H	H
C-32.13	Z32	OCF ₂ H	H	H
C-32.14	Z32	Cl	H	F
C-32.15	Z32	CH ₃	H	F
C-32.16	Z32	CH ₃	F	H
C-32.17	Z32	Cl	F	H
C-32.18	Z32	F	F	H
C-32.19	Z32	F	H	F
C-32.20	Z32	F	H	Cl
C-32.21	Z32	F	H	CH ₃
C-32.22	Z32	Cl	H	CH ₃
C-32.23	Z32	SCH ₃	H	H
C-32.24	Z32	SO ₂ CH ₃	H	H
C-32.25	Z32	ethynyl	H	H
C-33.1	Z33	H	H	H
C-33.2	Z33	CH ₃	H	H
C-33.3	Z33	Cl	H	H
C-33.4	Z33	F	H	H
C-33.5	Z33	CH ₂ CH ₃	H	H

Table 1.C



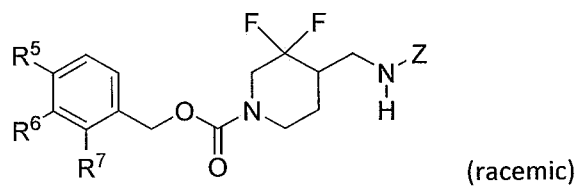
compound	Z	R ⁵	R ⁶	R ⁷
C-33.6	Z33	CF ₂ H	H	H
C-33.7	Z33	CH ₂ F	H	H
C-33.8	Z33	CF ₃	H	H
C-33.9	Z33	CF ₂ CH ₃	H	H
C-33.10	Z33	CH ₂ CF ₃	H	H
C-33.11	Z33	cyclopropyl	H	H
C-33.12	Z33	OCF ₃	H	H
C-33.13	Z33	OCF ₂ H	H	H
C-33.14	Z33	Cl	H	F
C-33.15	Z33	CH ₃	H	F
C-33.16	Z33	CH ₃	F	H
C-33.17	Z33	Cl	F	H
C-33.18	Z33	F	F	H
C-33.19	Z33	F	H	F
C-33.20	Z33	F	H	Cl
C-33.21	Z33	F	H	CH ₃
C-33.22	Z33	Cl	H	CH ₃
C-33.23	Z33	SCH ₃	H	H
C-33.24	Z33	SO ₂ CH ₃	H	H
C-33.25	Z33	ethynyl	H	H
C-34.1	Z34	H	H	H
C-34.2	Z34	CH ₃	H	H
C-34.3	Z34	Cl	H	H
C-34.4	Z34	F	H	H
C-34.5	Z34	CH ₂ CH ₃	H	H
C-34.6	Z34	CF ₂ H	H	H
C-34.7	Z34	CH ₂ F	H	H

Table 1.C



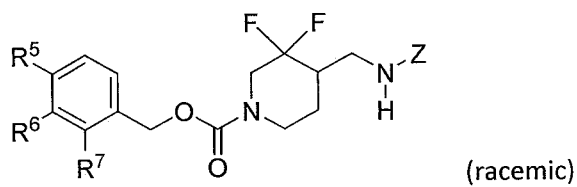
compound	Z	R ⁵	R ⁶	R ⁷
C-34.8	Z34	CF ₃	H	H
C-34.9	Z34	CF ₂ CH ₃	H	H
C-34.10	Z34	CH ₂ CF ₃	H	H
C-34.11	Z34	cyclopropyl	H	H
C-34.12	Z34	OCF ₃	H	H
C-34.13	Z34	OCF ₂ H	H	H
C-34.14	Z34	Cl	H	F
C-34.15	Z34	CH ₃	H	F
C-34.16	Z34	CH ₃	F	H
C-34.17	Z34	Cl	F	H
C-34.18	Z34	F	F	H
C-34.19	Z34	F	H	F
C-34.20	Z34	F	H	Cl
C-34.21	Z34	F	H	CH ₃
C-34.22	Z34	Cl	H	CH ₃
C-34.23	Z34	SCH ₃	H	H
C-34.24	Z34	SO ₂ CH ₃	H	H
C-34.25	Z34	ethynyl	H	H
C-35.1	Z35, R ^a is H	H	H	H
C-35.2	Z35, R ^a is H	CH ₃	H	H
C-35.3	Z35, R ^a is H	Cl	H	H
C-35.4	Z35, R ^a is H	F	H	H
C-35.5	Z35, R ^a is H	CH ₂ CH ₃	H	H
C-35.6	Z35, R ^a is H	CF ₂ H	H	H
C-35.7	Z35, R ^a is H	CH ₂ F	H	H
C-35.8	Z35, R ^a is H	CF ₃	H	H
C-35.9	Z35, R ^a is H	CF ₂ CH ₃	H	H

Table 1.C



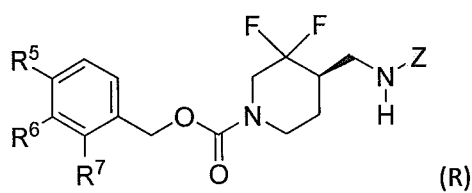
compound	Z	R ⁵	R ⁶	R ⁷
C-35.10	Z35, R ^a is H	CH ₂ CF ₃	H	H
C-35.11	Z35, R ^a is H	cyclopropyl	H	H
C-35.12	Z35, R ^a is H	OCF ₃	H	H
C-35.13	Z35, R ^a is H	OCF ₂ H	H	H
C-35.14	Z35, R ^a is H	Cl	H	F
C-35.15	Z35, R ^a is H	CH ₃	H	F
C-35.16	Z35, R ^a is H	CH ₃	F	H
C-35.17	Z35, R ^a is H	Cl	F	H
C-35.18	Z35, R ^a is H	F	F	H
C-35.19	Z35, R ^a is H	F	H	F
C-35.20	Z35, R ^a is H	F	H	Cl
C-35.21	Z35, R ^a is H	F	H	CH ₃
C-35.22	Z35, R ^a is H	Cl	H	CH ₃
C-35.23	Z35, R ^a is H	SCH ₃	H	H
C-35.24	Z35, R ^a is H	SO ₂ CH ₃	H	H
C-35.25	Z35, R ^a is H	ethynyl	H	H
C-36.1	Z36, R ^a is H	H	H	H
C-36.2	Z36, R ^a is H	CH ₃	H	H
C-36.3	Z36, R ^a is H	Cl	H	H
C-36.4	Z36, R ^a is H	F	H	H
C-36.5	Z36, R ^a is H	CH ₂ CH ₃	H	H
C-36.6	Z36, R ^a is H	CF ₂ H	H	H
C-36.7	Z36, R ^a is H	CH ₂ F	H	H
C-36.8	Z36, R ^a is H	CF ₃	H	H
C-36.9	Z36, R ^a is H	CF ₂ CH ₃	H	H
C-36.10	Z36, R ^a is H	CH ₂ CF ₃	H	H
C-36.11	Z36, R ^a is H	cyclopropyl	H	H

Table 1.C



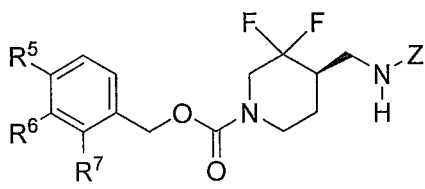
compound	Z	R ⁵	R ⁶	R ⁷
C-36.12	Z36, R ^a is H	OCF ₃	H	H
C-36.13	Z36, R ^a is H	OCF ₂ H	H	H
C-36.14	Z36, R ^a is H	Cl	H	F
C-36.15	Z36, R ^a is H	CH ₃	H	F
C-36.16	Z36, R ^a is H	CH ₃	F	H
C-36.17	Z36, R ^a is H	Cl	F	H
C-36.18	Z36, R ^a is H	F	F	H
C-36.19	Z36, R ^a is H	F	H	F
C-36.20	Z36, R ^a is H	F	H	Cl
C-36.21	Z36, R ^a is H	F	H	CH ₃
C-36.22	Z36, R ^a is H	Cl	H	CH ₃
C-36.23	Z36, R ^a is H	SCH ₃	H	H
C-36.24	Z36, R ^a is H	SO ₂ CH ₃	H	H
C-36.25	Z36, R ^a is H	ethynyl	H	H

Table 1.E1



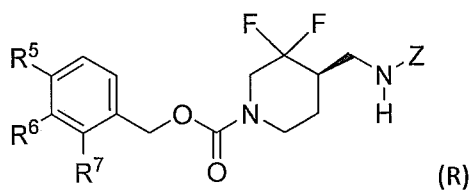
compound	Z	R ⁵	R ⁶	R ⁷
E1-1.1	Z1	H	H	H
E1-1.2	Z1	CH ₃	H	H
E1-1.3	Z1	Cl	H	H
E1-1.4	Z1	F	H	H
E1-1.5	Z1	CH ₂ CH ₃	H	H

Table 1.E1



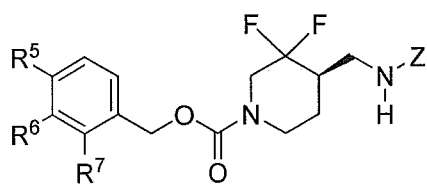
compound	Z	R ⁵	R ⁶	R ⁷
E1-1.6	Z1	CF ₂ H	H	H
E1-1.7	Z1	CH ₂ F	H	H
E1-1.8	Z1	CF ₃	H	H
E1-1.9	Z1	CF ₂ CH ₃	H	H
E1-1.10	Z1	CH ₂ CF ₃	H	H
E1-1.11	Z1	cyclopropyl	H	H
E1-1.12	Z1	OCF ₃	H	H
E1-1.13	Z1	OCF ₂ H	H	H
E1-1.14	Z1	Cl	H	F
E1-1.15	Z1	CH ₃	H	F
E1-1.16	Z1	CH ₃	F	H
E1-1.17	Z1	Cl	F	H
E1-1.18	Z1	F	F	H
E1-1.19	Z1	F	H	F
E1-1.20	Z1	F	H	Cl
E1-1.21	Z1	F	H	CH ₃
E1-1.22	Z1	Cl	H	CH ₃
E1-1.23	Z1	SCH ₃	H	H
E1-1.24	Z1	SO ₂ CH ₃	H	H
E1-1.25	Z1	ethynyl	H	H
E1-2.1	Z2	H	H	H
E1-2.2	Z2	CH ₃	H	H
E1-2.3	Z2	Cl	H	H
E1-2.4	Z2	F	H	H
E1-2.5	Z2	CH ₂ CH ₃	H	H
E1-2.6	Z2	CF ₂ H	H	H
E1-2.7	Z2	CH ₂ F	H	H

Table 1.E1



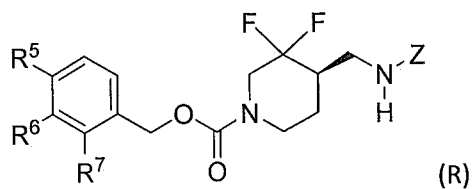
compound	Z	R ⁵	R ⁶	R ⁷
E1-2.8	Z2	CF ₃	H	H
E1-2.9	Z2	CF ₂ CH ₃	H	H
E1-2.10	Z2	CH ₂ CF ₃	H	H
E1-2.11	Z2	cyclopropyl	H	H
E1-2.12	Z2	OCF ₃	H	H
E1-2.13	Z2	OCF ₂ H	H	H
E1-2.14	Z2	Cl	H	F
E1-2.15	Z2	CH ₃	H	F
E1-2.16	Z2	CH ₃	F	H
E1-2.17	Z2	Cl	F	H
E1-2.18	Z2	F	F	H
E1-2.19	Z2	F	H	F
E1-2.20	Z2	F	H	Cl
E1-2.21	Z2	F	H	CH ₃
E1-2.22	Z2	Cl	H	CH ₃
E1-2.23	Z2	SCH ₃	H	H
E1-2.24	Z2	SO ₂ CH ₃	H	H
E1-2.25	Z2	ethynyl	H	H
E1-3.1	Z3	H	H	H
E1-3.2	Z3	CH ₃	H	H
E1-3.3	Z3	Cl	H	H
E1-3.4	Z3	F	H	H
E1-3.5	Z3	CH ₂ CH ₃	H	H
E1-3.6	Z3	CF ₂ H	H	H
E1-3.7	Z3	CH ₂ F	H	H
E1-3.8	Z3	CF ₃	H	H
E1-3.9	Z3	CF ₂ CH ₃	H	H

Table 1.E1



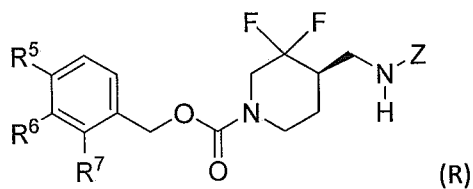
compound	Z	R ⁵	R ⁶	R ⁷
E1-3.10	Z3	CH ₂ CF ₃	H	H
E1-3.11	Z3	cyclopropyl	H	H
E1-3.12	Z3	OCF ₃	H	H
E1-3.13	Z3	OCF ₂ H	H	H
E1-3.14	Z3	Cl	H	F
E1-3.15	Z3	CH ₃	H	F
E1-3.16	Z3	CH ₃	F	H
E1-3.17	Z3	Cl	F	H
E1-3.18	Z3	F	F	H
E1-3.19	Z3	F	H	F
E1-3.20	Z3	F	H	Cl
E1-3.21	Z3	F	H	CH ₃
E1-3.22	Z3	Cl	H	CH ₃
E1-3.23	Z3	SCH ₃	H	H
E1-3.24	Z3	SO ₂ CH ₃	H	H
E1-3.25	Z3	ethynyl	H	H
E1-4.1	Z4	H	H	H
E1-4.2	Z4	CH ₃	H	H
E1-4.3	Z4	Cl	H	H
E1-4.4	Z4	F	H	H
E1-4.5	Z4	CH ₂ CH ₃	H	H
E1-4.6	Z4	CF ₂ H	H	H
E1-4.7	Z4	CH ₂ F	H	H
E1-4.8	Z4	CF ₃	H	H
E1-4.9	Z4	CF ₂ CH ₃	H	H
E1-4.10	Z4	CH ₂ CF ₃	H	H
E1-4.11	Z4	cyclopropyl	H	H

Table 1.E1



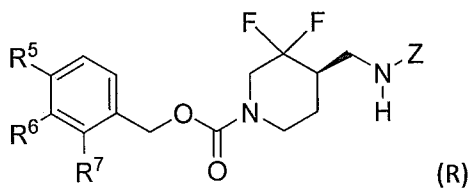
compound	Z	R ⁵	R ⁶	R ⁷
E1-4.12	Z4	OCF ₃	H	H
E1-4.13	Z4	OCF ₂ H	H	H
E1-4.14	Z4	Cl	H	F
E1-4.15	Z4	CH ₃	H	F
E1-4.16	Z4	CH ₃	F	H
E1-4.17	Z4	Cl	F	H
E1-4.18	Z4	F	F	H
E1-4.19	Z4	F	H	F
E1-4.20	Z4	F	H	Cl
E1-4.21	Z4	F	H	CH ₃
E1-4.22	Z4	Cl	H	CH ₃
E1-4.23	Z4	SCH ₃	H	H
E1-4.24	Z4	SO ₂ CH ₃	H	H
E1-4.25	Z4	ethynyl	H	H
E1-5.1	Z5	H	H	H
E1-5.2	Z5	CH ₃	H	H
E1-5.3	Z5	Cl	H	H
E1-5.4	Z5	F	H	H
E1-5.5	Z5	CH ₂ CH ₃	H	H
E1-5.6	Z5	CF ₂ H	H	H
E1-5.7	Z5	CH ₂ F	H	H
E1-5.8	Z5	CF ₃	H	H
E1-5.9	Z5	CF ₂ CH ₃	H	H
E1-5.10	Z5	CH ₂ CF ₃	H	H
E1-5.11	Z5	cyclopropyl	H	H
E1-5.12	Z5	OCF ₃	H	H
E1-5.13	Z5	OCF ₂ H	H	H

Table 1.E1



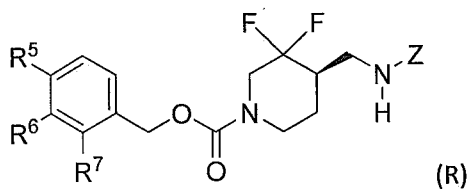
compound	Z	R ⁵	R ⁶	R ⁷
E1-5.14	Z5	Cl	H	F
E1-5.15	Z5	CH ₃	H	F
E1-5.16	Z5	CH ₃	F	H
E1-5.17	Z5	Cl	F	H
E1-5.18	Z5	F	F	H
E1-5.19	Z5	F	H	F
E1-5.20	Z5	F	H	Cl
E1-5.21	Z5	F	H	CH ₃
E1-5.22	Z5	Cl	H	CH ₃
E1-5.23	Z5	SCH ₃	H	H
E1-5.24	Z5	SO ₂ CH ₃	H	H
E1-5.25	Z5	ethynyl	H	H
E1-6.1	Z6, R ^a is H	H	H	H
E1-6.2	Z6, R ^a is H	CH ₃	H	H
E1-6.3	Z6, R ^a is H	Cl	H	H
E1-6.4	Z6, R ^a is H	F	H	H
E1-6.5	Z6, R ^a is H	CH ₂ CH ₃	H	H
E1-6.6	Z6, R ^a is H	CF ₂ H	H	H
E1-6.7	Z6, R ^a is H	CH ₂ F	H	H
E1-6.8	Z6, R ^a is H	CF ₃	H	H
E1-6.9	Z6, R ^a is H	CF ₂ CH ₃	H	H
E1-6.10	Z6, R ^a is H	CH ₂ CF ₃	H	H
E1-6.11	Z6, R ^a is H	cyclopropyl	H	H
E1-6.12	Z6, R ^a is H	OCF ₃	H	H
E1-6.13	Z6, R ^a is H	OCF ₂ H	H	H
E1-6.14	Z6, R ^a is H	Cl	H	F
E1-6.15	Z6, R ^a is H	CH ₃	H	F

Table 1.E1



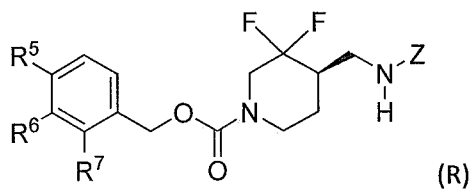
compound	Z	R ⁵	R ⁶	R ⁷
E1-6.16	Z6, R ^a is H	CH ₃	F	H
E1-6.17	Z6, R ^a is H	Cl	F	H
E1-6.18	Z6, R ^a is H	F	F	H
E1-6.19	Z6, R ^a is H	F	H	F
E1-6.20	Z6, R ^a is H	F	H	Cl
E1-6.21	Z6, R ^a is H	F	H	CH ₃
E1-6.22	Z6, R ^a is H	Cl	H	CH ₃
E1-6.23	Z6, R ^a is H	SCH ₃	H	H
E1-6.24	Z6, R ^a is H	SO ₂ CH ₃	H	H
E1-6.25	Z6, R ^a is H	ethynyl	H	H
E1-7.1	Z7, R ^a is H	H	H	H
E1-7.2	Z7, R ^a is H	CH ₃	H	H
E1-7.3	Z7, R ^a is H	Cl	H	H
E1-7.4	Z7, R ^a is H	F	H	H
E1-7.5	Z7, R ^a is H	CH ₂ CH ₃	H	H
E1-7.6	Z7, R ^a is H	CF ₂ H	H	H
E1-7.7	Z7, R ^a is H	CH ₂ F	H	H
E1-7.8	Z7, R ^a is H	CF ₃	H	H
E1-7.9	Z7, R ^a is H	CF ₂ CH ₃	H	H
E1-7.10	Z7, R ^a is H	CH ₂ CF ₃	H	H
E1-7.11	Z7, R ^a is H	cyclopropyl	H	H
E1-7.12	Z7, R ^a is H	OCF ₃	H	H
E1-7.13	Z7, R ^a is H	OCF ₂ H	H	H
E1-7.14	Z7, R ^a is H	Cl	H	F
E1-7.15	Z7, R ^a is H	CH ₃	H	F
E1-7.16	Z7, R ^a is H	CH ₃	F	H
E1-7.17	Z7, R ^a is H	Cl	F	H

Table 1.E1



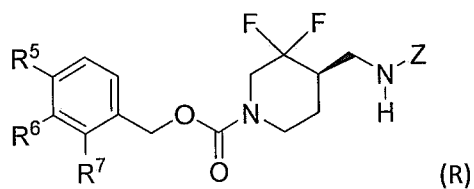
compound	Z	R ⁵	R ⁶	R ⁷
E1-7.18	Z7, R ^a is H	F	F	H
E1-7.19	Z7, R ^a is H	F	H	F
E1-7.20	Z7, R ^a is H	F	H	Cl
E1-7.21	Z7, R ^a is H	F	H	CH ₃
E1-7.22	Z7, R ^a is H	Cl	H	CH ₃
E1-7.23	Z7, R ^a is H	SCH ₃	H	H
E1-7.24	Z7, R ^a is H	SO ₂ CH ₃	H	H
E1-7.25	Z7, R ^a is H	ethynyl	H	H
E1-8.1	Z8, R ^a is H	H	H	H
E1-8.2	Z8, R ^a is H	CH ₃	H	H
E1-8.3	Z8, R ^a is H	Cl	H	H
E1-8.4	Z8, R ^a is H	F	H	H
E1-8.5	Z8, R ^a is H	CH ₂ CH ₃	H	H
E1-8.6	Z8, R ^a is H	CF ₂ H	H	H
E1-8.7	Z8, R ^a is H	CH ₂ F	H	H
E1-8.8	Z8, R ^a is H	CF ₃	H	H
E1-8.9	Z8, R ^a is H	CF ₂ CH ₃	H	H
E1-8.10	Z8, R ^a is H	CH ₂ CF ₃	H	H
E1-8.11	Z8, R ^a is H	cyclopropyl	H	H
E1-8.12	Z8, R ^a is H	OCF ₃	H	H
E1-8.13	Z8, R ^a is H	OCF ₂ H	H	H
E1-8.14	Z8, R ^a is H	Cl	H	F
E1-8.15	Z8, R ^a is H	CH ₃	H	F
E1-8.16	Z8, R ^a is H	CH ₃	F	H
E1-8.17	Z8, R ^a is H	Cl	F	H
E1-8.18	Z8, R ^a is H	F	F	H
E1-8.19	Z8, R ^a is H	F	H	F

Table 1.E1



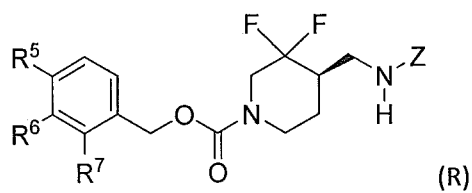
compound	Z	R ⁵	R ⁶	R ⁷
E1-8.20	Z8, R ^a is H	F	H	Cl
E1-8.21	Z8, R ^a is H	F	H	CH ₃
E1-8.22	Z8, R ^a is H	Cl	H	CH ₃
E1-8.23	Z8, R ^a is H	SCH ₃	H	H
E1-8.24	Z8, R ^a is H	SO ₂ CH ₃	H	H
E1-8.25	Z8, R ^a is H	ethynyl	H	H
E1-9.1	Z9	H	H	H
E1-9.2	Z9	CH ₃	H	H
E1-9.3	Z9	Cl	H	H
E1-9.4	Z9	F	H	H
E1-9.5	Z9	CH ₂ CH ₃	H	H
E1-9.6	Z9	CF ₂ H	H	H
E1-9.7	Z9	CH ₂ F	H	H
E1-9.8	Z9	CF ₃	H	H
E1-9.9	Z9	CF ₂ CH ₃	H	H
E1-9.10	Z9	CH ₂ CF ₃	H	H
E1-9.11	Z9	cyclopropyl	H	H
E1-9.12	Z9	OCF ₃	H	H
E1-9.13	Z9	OCF ₂ H	H	H
E1-9.14	Z9	Cl	H	F
E1-9.15	Z9	CH ₃	H	F
E1-9.16	Z9	CH ₃	F	H
E1-9.17	Z9	Cl	F	H
E1-9.18	Z9	F	F	H
E1-9.19	Z9	F	H	F
E1-9.20	Z9	F	H	Cl
E1-9.21	Z9	F	H	CH ₃

Table 1.E1



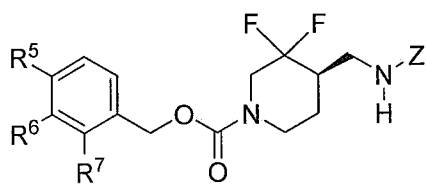
compound	Z	R ⁵	R ⁶	R ⁷
E1-9.22	Z9	Cl	H	CH ₃
E1-9.23	Z9	SCH ₃	H	H
E1-9.24	Z9	SO ₂ CH ₃	H	H
E1-9.25	Z9	ethynyl	H	H
E1-10.1	Z10	H	H	H
E1-10.2	Z10	CH ₃	H	H
E1-10.3	Z10	Cl	H	H
E1-10.4	Z10	F	H	H
E1-10.5	Z10	CH ₂ CH ₃	H	H
E1-10.6	Z10	CF ₂ H	H	H
E1-10.7	Z10	CH ₂ F	H	H
E1-10.8	Z10	CF ₃	H	H
E1-10.9	Z10	CF ₂ CH ₃	H	H
E1-10.10	Z10	CH ₂ CF ₃	H	H
E1-10.11	Z10	cyclopropyl	H	H
E1-10.12	Z10	OCF ₃	H	H
E1-10.13	Z10	OCF ₂ H	H	H
E1-10.14	Z10	Cl	H	F
E1-10.15	Z10	CH ₃	H	F
E1-10.16	Z10	CH ₃	F	H
E1-10.17	Z10	Cl	F	H
E1-10.18	Z10	F	F	H
E1-10.19	Z10	F	H	F
E1-10.20	Z10	F	H	Cl
E1-10.21	Z10	F	H	CH ₃
E1-10.22	Z10	Cl	H	CH ₃
E1-10.23	Z10	SCH ₃	H	H

Table 1.E1



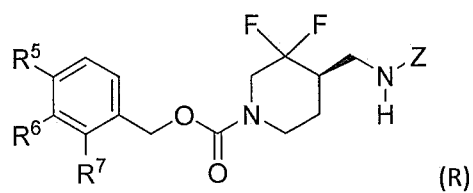
compound	Z	R ⁵	R ⁶	R ⁷
E1-10.24	Z10	SO ₂ CH ₃	H	H
E1-10.25	Z10	ethynyl	H	H
E1-11.1	Z11, R ^a is H	H	H	H
E1-11.2	Z11, R ^a is H	CH ₃	H	H
E1-11.3	Z11, R ^a is H	Cl	H	H
E1-11.4	Z11, R ^a is H	F	H	H
E1-11.5	Z11, R ^a is H	CH ₂ CH ₃	H	H
E1-11.6	Z11, R ^a is H	CF ₂ H	H	H
E1-11.7	Z11, R ^a is H	CH ₂ F	H	H
E1-11.8	Z11, R ^a is H	CF ₃	H	H
E1-11.9	Z11, R ^a is H	CF ₂ CH ₃	H	H
E1-11.10	Z11, R ^a is H	CH ₂ CF ₃	H	H
E1-11.11	Z11, R ^a is H	cyclopropyl	H	H
E1-11.12	Z11, R ^a is H	OCF ₃	H	H
E1-11.13	Z11, R ^a is H	OCF ₂ H	H	H
E1-11.14	Z11, R ^a is H	Cl	H	F
E1-11.15	Z11, R ^a is H	CH ₃	H	F
E1-11.16	Z11, R ^a is H	CH ₃	F	H
E1-11.17	Z11, R ^a is H	Cl	F	H
E1-11.18	Z11, R ^a is H	F	F	H
E1-11.19	Z11, R ^a is H	F	H	F
E1-11.20	Z11, R ^a is H	F	H	Cl
E1-11.21	Z11, R ^a is H	F	H	CH ₃
E1-11.22	Z11, R ^a is H	Cl	H	CH ₃
E1-11.23	Z11, R ^a is H	SCH ₃	H	H
E1-11.24	Z11, R ^a is H	SO ₂ CH ₃	H	H
E1-11.25	Z11, R ^a is H	ethynyl	H	H

Table 1.E1



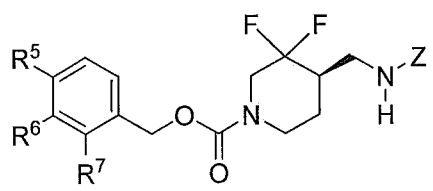
compound	Z	R ⁵	R ⁶	R ⁷
E1-12.1	Z12	H	H	H
E1-12.2	Z12	CH ₃	H	H
E1-12.3	Z12	Cl	H	H
E1-12.4	Z12	F	H	H
E1-12.5	Z12	CH ₂ CH ₃	H	H
E1-12.6	Z12	CF ₂ H	H	H
E1-12.7	Z12	CH ₂ F	H	H
E1-12.8	Z12	CF ₃	H	H
E1-12.9	Z12	CF ₂ CH ₃	H	H
E1-12.10	Z12	CH ₂ CF ₃	H	H
E1-12.11	Z12	cyclopropyl	H	H
E1-12.12	Z12	OCF ₃	H	H
E1-12.13	Z12	OCF ₂ H	H	H
E1-12.14	Z12	Cl	H	F
E1-12.15	Z12	CH ₃	H	F
E1-12.16	Z12	CH ₃	F	H
E1-12.17	Z12	Cl	F	H
E1-12.18	Z12	F	F	H
E1-12.19	Z12	F	H	F
E1-12.20	Z12	F	H	Cl
E1-12.21	Z12	F	H	CH ₃
E1-12.22	Z12	Cl	H	CH ₃
E1-12.23	Z12	SCH ₃	H	H
E1-12.24	Z12	SO ₂ CH ₃	H	H
E1-12.25	Z12	ethynyl	H	H
E1-13.1	Z13, R ^a is H	H	H	H
E1-13.2	Z13, R ^a is H	CH ₃	H	H

Table 1.E1



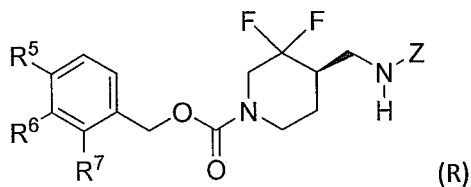
compound	Z	R ⁵	R ⁶	R ⁷
E1-13.3	Z13, R ^a is H	Cl	H	H
E1-13.4	Z13, R ^a is H	F	H	H
E1-13.5	Z13, R ^a is H	CH ₂ CH ₃	H	H
E1-13.6	Z13, R ^a is H	CF ₂ H	H	H
E1-13.7	Z13, R ^a is H	CH ₂ F	H	H
E1-13.8	Z13, R ^a is H	CF ₃	H	H
E1-13.9	Z13, R ^a is H	CF ₂ CH ₃	H	H
E1-13.10	Z13, R ^a is H	CH ₂ CF ₃	H	H
E1-13.11	Z13, R ^a is H	cyclopropyl	H	H
E1-13.12	Z13, R ^a is H	OCF ₃	H	H
E1-13.13	Z13, R ^a is H	OCF ₂ H	H	H
E1-13.14	Z13, R ^a is H	Cl	H	F
E1-13.15	Z13, R ^a is H	CH ₃	H	F
E1-13.16	Z13, R ^a is H	CH ₃	F	H
E1-13.17	Z13, R ^a is H	Cl	F	H
E1-13.18	Z13, R ^a is H	F	F	H
E1-13.19	Z13, R ^a is H	F	H	F
E1-13.20	Z13, R ^a is H	F	H	Cl
E1-13.21	Z13, R ^a is H	F	H	CH ₃
E1-13.22	Z13, R ^a is H	Cl	H	CH ₃
E1-13.23	Z13, R ^a is H	SCH ₃	H	H
E1-13.24	Z13, R ^a is H	SO ₂ CH ₃	H	H
E1-13.25	Z13, R ^a is H	ethynyl	H	H
E1-14.1	Z14, R ^a is H	H	H	H
E1-14.2	Z14, R ^a is H	CH ₃	H	H
E1-14.3	Z14, R ^a is H	Cl	H	H
E1-14.4	Z14, R ^a is H	F	H	H

Table 1.E1



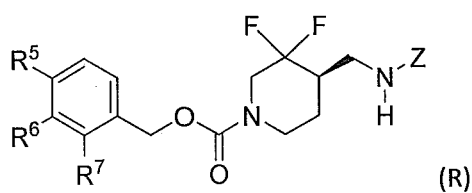
compound	Z	R ⁵	R ⁶	R ⁷
E1-14.5	Z14, R ^a is H	CH ₂ CH ₃	H	H
E1-14.6	Z14, R ^a is H	CF ₂ H	H	H
E1-14.7	Z14, R ^a is H	CH ₂ F	H	H
E1-14.8	Z14, R ^a is H	CF ₃	H	H
E1-14.9	Z14, R ^a is H	CF ₂ CH ₃	H	H
E1-14.10	Z14, R ^a is H	CH ₂ CF ₃	H	H
E1-14.11	Z14, R ^a is H	cyclopropyl	H	H
E1-14.12	Z14, R ^a is H	OCF ₃	H	H
E1-14.13	Z14, R ^a is H	OCF ₂ H	H	H
E1-14.14	Z14, R ^a is H	Cl	H	F
E1-14.15	Z14, R ^a is H	CH ₃	H	F
E1-14.16	Z14, R ^a is H	CH ₃	F	H
E1-14.17	Z14, R ^a is H	Cl	F	H
E1-14.18	Z14, R ^a is H	F	F	H
E1-14.19	Z14, R ^a is H	F	H	F
E1-14.20	Z14, R ^a is H	F	H	Cl
E1-14.21	Z14, R ^a is H	F	H	CH ₃
E1-14.22	Z14, R ^a is H	Cl	H	CH ₃
E1-14.23	Z14, R ^a is H	SCH ₃	H	H
E1-14.24	Z14, R ^a is H	SO ₂ CH ₃	H	H
E1-14.25	Z14, R ^a is H	ethynyl	H	H
E1-15.1	Z15, R ^a is H	H	H	H
E1-15.2	Z15, R ^a is H	CH ₃	H	H
E1-15.3	Z15, R ^a is H	Cl	H	H
E1-15.4	Z15, R ^a is H	F	H	H
E1-15.5	Z15, R ^a is H	CH ₂ CH ₃	H	H
E1-15.6	Z15, R ^a is H	CF ₂ H	H	H

Table 1.E1



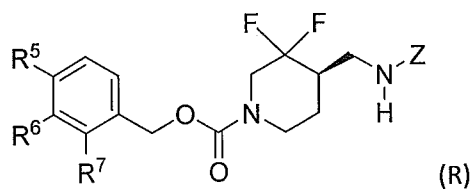
compound	Z	R ⁵	R ⁶	R ⁷
E1-15.7	Z15, R ^a is H	CH ₂ F	H	H
E1-15.8	Z15, R ^a is H	CF ₃	H	H
E1-15.9	Z15, R ^a is H	CF ₂ CH ₃	H	H
E1-15.10	Z15, R ^a is H	CH ₂ CF ₃	H	H
E1-15.11	Z15, R ^a is H	cyclopropyl	H	H
E1-15.12	Z15, R ^a is H	OCF ₃	H	H
E1-15.13	Z15, R ^a is H	OCF ₂ H	H	H
E1-15.14	Z15, R ^a is H	Cl	H	F
E1-15.15	Z15, R ^a is H	CH ₃	H	F
E1-15.16	Z15, R ^a is H	CH ₃	F	H
E1-15.17	Z15, R ^a is H	Cl	F	H
E1-15.18	Z15, R ^a is H	F	F	H
E1-15.19	Z15, R ^a is H	F	H	F
E1-15.20	Z15, R ^a is H	F	H	Cl
E1-15.21	Z15, R ^a is H	F	H	CH ₃
E1-15.22	Z15, R ^a is H	Cl	H	CH ₃
E1-15.23	Z15, R ^a is H	SCH ₃	H	H
E1-15.24	Z15, R ^a is H	SO ₂ CH ₃	H	H
E1-15.25	Z15, R ^a is H	ethynyl	H	H
E1-16.1	Z16, R ^a is H	H	H	H
E1-16.2	Z16, R ^a is H	CH ₃	H	H
E1-16.3	Z16, R ^a is H	Cl	H	H
E1-16.4	Z16, R ^a is H	F	H	H
E1-16.5	Z16, R ^a is H	CH ₂ CH ₃	H	H
E1-16.6	Z16, R ^a is H	CF ₂ H	H	H
E1-16.7	Z16, R ^a is H	CH ₂ F	H	H
E1-16.8	Z16, R ^a is H	CF ₃	H	H

Table 1.E1



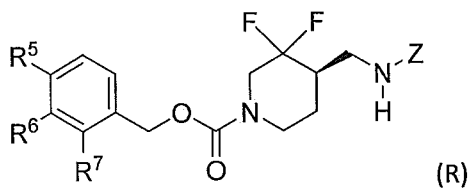
compound	Z	R ⁵	R ⁶	R ⁷
E1-16.9	Z16, R ^a is H	CF ₂ CH ₃	H	H
E1-16.10	Z16, R ^a is H	CH ₂ CF ₃	H	H
E1-16.11	Z16, R ^a is H	cyclopropyl	H	H
E1-16.12	Z16, R ^a is H	OCF ₃	H	H
E1-16.13	Z16, R ^a is H	OCF ₂ H	H	H
E1-16.14	Z16, R ^a is H	Cl	H	F
E1-16.15	Z16, R ^a is H	CH ₃	H	F
E1-16.16	Z16, R ^a is H	CH ₃	F	H
E1-16.17	Z16, R ^a is H	Cl	F	H
E1-16.18	Z16, R ^a is H	F	F	H
E1-16.19	Z16, R ^a is H	F	H	F
E1-16.20	Z16, R ^a is H	F	H	Cl
E1-16.21	Z16, R ^a is H	F	H	CH ₃
E1-16.22	Z16, R ^a is H	Cl	H	CH ₃
E1-16.23	Z16, R ^a is H	SCH ₃	H	H
E1-16.24	Z16, R ^a is H	SO ₂ CH ₃	H	H
E1-16.25	Z16, R ^a is H	ethynyl	H	H
E1-17.1	Z17	H	H	H
E1-17.2	Z17	CH ₃	H	H
E1-17.3	Z17	Cl	H	H
E1-17.4	Z17	F	H	H
E1-17.5	Z17	CH ₂ CH ₃	H	H
E1-17.6	Z17	CF ₂ H	H	H
E1-17.7	Z17	CH ₂ F	H	H
E1-17.8	Z17	CF ₃	H	H
E1-17.9	Z17	CF ₂ CH ₃	H	H
E1-17.10	Z17	CH ₂ CF ₃	H	H

Table 1.E1



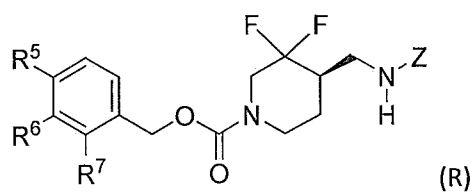
compound	Z	R ⁵	R ⁶	R ⁷
E1-17.11	Z17	cyclopropyl	H	H
E1-17.12	Z17	OCF ₃	H	H
E1-17.13	Z17	OCF ₂ H	H	H
E1-17.14	Z17	Cl	H	F
E1-17.15	Z17	CH ₃	H	F
E1-17.16	Z17	CH ₃	F	H
E1-17.17	Z17	Cl	F	H
E1-17.18	Z17	F	F	H
E1-17.19	Z17	F	H	F
E1-17.20	Z17	F	H	Cl
E1-17.21	Z17	F	H	CH ₃
E1-17.22	Z17	Cl	H	CH ₃
E1-17.23	Z17	SCH ₃	H	H
E1-17.24	Z17	SO ₂ CH ₃	H	H
E1-17.25	Z17	ethynyl	H	H
E1-18.1	Z18	H	H	H
E1-18.2	Z18	CH ₃	H	H
E1-18.3	Z18	Cl	H	H
E1-18.4	Z18	F	H	H
E1-18.5	Z18	CH ₂ CH ₃	H	H
E1-18.6	Z18	CF ₂ H	H	H
E1-18.7	Z18	CH ₂ F	H	H
E1-18.8	Z18	CF ₃	H	H
E1-18.9	Z18	CF ₂ CH ₃	H	H
E1-18.10	Z18	CH ₂ CF ₃	H	H
E1-18.11	Z18	cyclopropyl	H	H
E1-18.12	Z18	OCF ₃	H	H

Table 1.E1



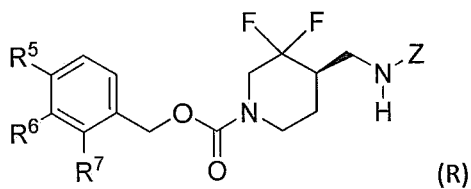
compound	Z	R ⁵	R ⁶	R ⁷
E1-18.13	Z18	OCF ₂ H	H	H
E1-18.14	Z18	Cl	H	F
E1-18.15	Z18	CH ₃	H	F
E1-18.16	Z18	CH ₃	F	H
E1-18.17	Z18	Cl	F	H
E1-18.18	Z18	F	F	H
E1-18.19	Z18	F	H	F
E1-18.20	Z18	F	H	Cl
E1-18.21	Z18	F	H	CH ₃
E1-18.22	Z18	Cl	H	CH ₃
E1-18.23	Z18	SCH ₃	H	H
E1-18.24	Z18	SO ₂ CH ₃	H	H
E1-18.25	Z18	ethynyl	H	H
E1-19.1	Z19	H	H	H
E1-19.2	Z19	CH ₃	H	H
E1-19.3	Z19	Cl	H	H
E1-19.4	Z19	F	H	H
E1-19.5	Z19	CH ₂ CH ₃	H	H
E1-19.6	Z19	CF ₂ H	H	H
E1-19.7	Z19	CH ₂ F	H	H
E1-19.8	Z19	CF ₃	H	H
E1-19.9	Z19	CF ₂ CH ₃	H	H
E1-19.10	Z19	CH ₂ CF ₃	H	H
E1-19.11	Z19	cyclopropyl	H	H
E1-19.12	Z19	OCF ₃	H	H
E1-19.13	Z19	OCF ₂ H	H	H
E1-19.14	Z19	Cl	H	F

Table 1.E1



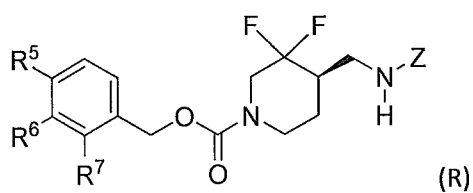
compound	Z	R ⁵	R ⁶	R ⁷
E1-19.15	Z19	CH ₃	H	F
E1-19.16	Z19	CH ₃	F	H
E1-19.17	Z19	Cl	F	H
E1-19.18	Z19	F	F	H
E1-19.19	Z19	F	H	F
E1-19.20	Z19	F	H	Cl
E1-19.21	Z19	F	H	CH ₃
E1-19.22	Z19	Cl	H	CH ₃
E1-19.23	Z19	SCH ₃	H	H
E1-19.24	Z19	SO ₂ CH ₃	H	H
E1-19.25	Z19	ethynyl	H	H
E1-19.26	Z19	CH ₃	H	H
E1-20.1	Z20	H	H	H
E1-20.2	Z20	CH ₃	H	H
E1-20.3	Z20	Cl	H	H
E1-20.4	Z20	F	H	H
E1-20.5	Z20	CH ₂ CH ₃	H	H
E1-20.6	Z20	CF ₂ H	H	H
E1-20.7	Z20	CH ₂ F	H	H
E1-20.8	Z20	CF ₃	H	H
E1-20.9	Z20	CF ₂ CH ₃	H	H
E1-20.10	Z20	CH ₂ CF ₃	H	H
E1-20.11	Z20	cyclopropyl	H	H
E1-20.12	Z20	OCF ₃	H	H
E1-20.13	Z20	OCF ₂ H	H	H
E1-20.14	Z20	Cl	H	F
E1-20.15	Z20	CH ₃	H	F

Table 1.E1



compound	Z	R ⁵	R ⁶	R ⁷
E1-20.16	Z20	CH ₃	F	H
E1-20.17	Z20	Cl	F	H
E1-20.18	Z20	F	F	H
E1-20.19	Z20	F	H	F
E1-20.20	Z20	F	H	Cl
E1-20.21	Z20	F	H	CH ₃
E1-20.22	Z20	Cl	H	CH ₃
E1-20.23	Z20	SCH ₃	H	H
E1-20.24	Z20	SO ₂ CH ₃	H	H
E1-20.25	Z20	ethynyl	H	H
E1-21.1	Z21	H	H	H
E1-21.2	Z21	CH ₃	H	H
E1-21.3	Z21	Cl	H	H
E1-21.4	Z21	F	H	H
E1-21.5	Z21	CH ₂ CH ₃	H	H
E1-21.6	Z21	CF ₂ H	H	H
E1-21.7	Z21	CH ₂ F	H	H
E1-21.8	Z21	CF ₃	H	H
E1-21.9	Z21	CF ₂ CH ₃	H	H
E1-21.10	Z21	CH ₂ CF ₃	H	H
E1-21.11	Z21	cyclopropyl	H	H
E1-21.12	Z21	OCF ₃	H	H
E1-21.13	Z21	OCF ₂ H	H	H
E1-21.14	Z21	Cl	H	F
E1-21.15	Z21	CH ₃	H	F
E1-21.16	Z21	CH ₃	F	H
E1-21.17	Z21	Cl	F	H

Table 1.E1



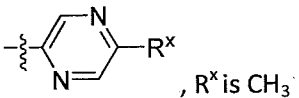
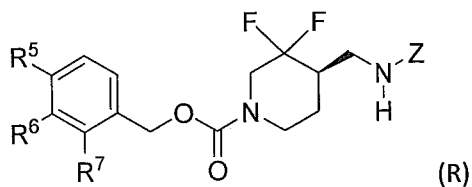
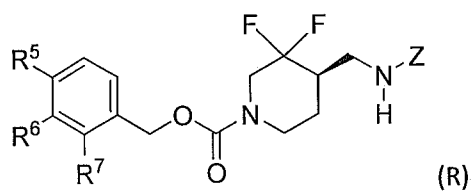
compound	Z	R ⁵	R ⁶	R ⁷
E1-21.18	Z21	F	F	H
E1-21.19	Z21	F	H	F
E1-21.20	Z21	F	H	Cl
E1-21.21	Z21	F	H	CH ₃
E1-21.22	Z21	Cl	H	CH ₃
E1-21.23	Z21	SCH ₃	H	H
E1-21.24	Z21	SO ₂ CH ₃	H	H
E1-21.25	Z21	ethynyl	H	H
E1-21.26	 , R ^x is CH ₃	CH ₃	H	H
E1-22.1	Z22	H	H	H
E1-22.2	Z22	CH ₃	H	H
E1-22.3	Z22	Cl	H	H
E1-22.4	Z22	F	H	H
E1-22.5	Z22	CH ₂ CH ₃	H	H
E1-22.6	Z22	CF ₂ H	H	H
E1-22.7	Z22	CH ₂ F	H	H
E1-22.8	Z22	CF ₃	H	H
E1-22.9	Z22	CF ₂ CH ₃	H	H
E1-22.10	Z22	CH ₂ CF ₃	H	H
E1-22.11	Z22	cyclopropyl	H	H
E1-22.12	Z22	OCF ₃	H	H
E1-22.13	Z22	OCF ₂ H	H	H
E1-22.14	Z22	Cl	H	F
E1-22.15	Z22	CH ₃	H	F
E1-22.16	Z22	CH ₃	F	H

Table 1.E1



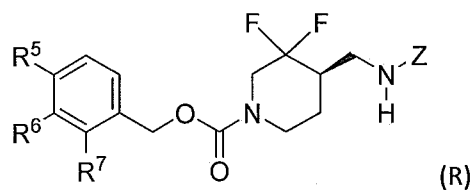
compound	Z	R ⁵	R ⁶	R ⁷
E1-22.17	Z22	Cl	F	H
E1-22.18	Z22	F	F	H
E1-22.19	Z22	F	H	F
E1-22.20	Z22	F	H	Cl
E1-22.21	Z22	F	H	CH ₃
E1-22.22	Z22	Cl	H	CH ₃
E1-22.23	Z22	SCH ₃	H	H
E1-22.24	Z22	SO ₂ CH ₃	H	H
E1-22.25	Z22	ethynyl	H	H
E1-23.1	Z23	H	H	H
E1-23.2	Z23	CH ₃	H	H
E1-23.3	Z23	Cl	H	H
E1-23.4	Z23	F	H	H
E1-23.5	Z23	CH ₂ CH ₃	H	H
E1-23.6	Z23	CF ₂ H	H	H
E1-23.7	Z23	CH ₂ F	H	H
E1-23.8	Z23	CF ₃	H	H
E1-23.9	Z23	CF ₂ CH ₃	H	H
E1-23.10	Z23	CH ₂ CF ₃	H	H
E1-23.11	Z23	cyclopropyl	H	H
E1-23.12	Z23	OCF ₃	H	H
E1-23.13	Z23	OCF ₂ H	H	H
E1-23.14	Z23	Cl	H	F
E1-23.15	Z23	CH ₃	H	F
E1-23.16	Z23	CH ₃	F	H
E1-23.17	Z23	Cl	F	H
E1-23.18	Z23	F	F	H

Table 1.E1



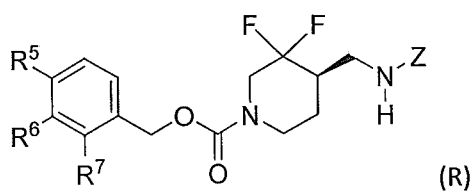
compound	Z	R ⁵	R ⁶	R ⁷
E1-23.19	Z23	F	H	F
E1-23.20	Z23	F	H	Cl
E1-23.21	Z23	F	H	CH ₃
E1-23.22	Z23	Cl	H	CH ₃
E1-23.23	Z23	SCH ₃	H	H
E1-23.24	Z23	SO ₂ CH ₃	H	H
E1-23.25	Z23	ethynyl	H	H
E1-24.1	Z24	H	H	H
E1-24.2	Z24	CH ₃	H	H
E1-24.3	Z24	Cl	H	H
E1-24.4	Z24	F	H	H
E1-24.5	Z24	CH ₂ CH ₃	H	H
E1-24.6	Z24	CF ₂ H	H	H
E1-24.7	Z24	CH ₂ F	H	H
E1-24.8	Z24	CF ₃	H	H
E1-24.9	Z24	CF ₂ CH ₃	H	H
E1-24.10	Z24	CH ₂ CF ₃	H	H
E1-24.11	Z24	cyclopropyl	H	H
E1-24.12	Z24	OCF ₃	H	H
E1-24.13	Z24	OCF ₂ H	H	H
E1-24.14	Z24	Cl	H	F
E1-24.15	Z24	CH ₃	H	F
E1-24.16	Z24	CH ₃	F	H
E1-24.17	Z24	Cl	F	H
E1-24.18	Z24	F	F	H
E1-24.19	Z24	F	H	F
E1-24.20	Z24	F	H	Cl

Table 1.E1



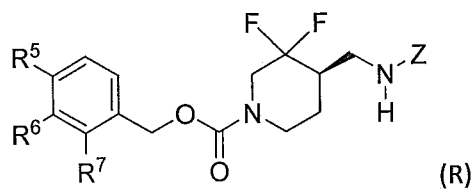
compound	Z	R ⁵	R ⁶	R ⁷
E1-24.21	Z24	F	H	CH ₃
E1-24.22	Z24	Cl	H	CH ₃
E1-24.23	Z24	SCH ₃	H	H
E1-24.24	Z24	SO ₂ CH ₃	H	H
E1-24.25	Z24	ethynyl	H	H
E1-25.1	Z25, R ^a is H	H	H	H
E1-25.2	Z25, R ^a is H	CH ₃	H	H
E1-25.3	Z25, R ^a is H	Cl	H	H
E1-25.4	Z25, R ^a is H	F	H	H
E1-25.5	Z25, R ^a is H	CH ₂ CH ₃	H	H
E1-25.6	Z25, R ^a is H	CF ₂ H	H	H
E1-25.7	Z25, R ^a is H	CH ₂ F	H	H
E1-25.8	Z25, R ^a is H	CF ₃	H	H
E1-25.9	Z25, R ^a is H	CF ₂ CH ₃	H	H
E1-25.10	Z25, R ^a is H	CH ₂ CF ₃	H	H
E1-25.11	Z25, R ^a is H	cyclopropyl	H	H
E1-25.12	Z25, R ^a is H	OCF ₃	H	H
E1-25.13	Z25, R ^a is H	OCF ₂ H	H	H
E1-25.14	Z25, R ^a is H	Cl	H	F
E1-25.15	Z25, R ^a is H	CH ₃	H	F
E1-25.16	Z25, R ^a is H	CH ₃	F	H
E1-25.17	Z25, R ^a is H	Cl	F	H
E1-25.18	Z25, R ^a is H	F	F	H
E1-25.19	Z25, R ^a is H	F	H	F
E1-25.20	Z25, R ^a is H	F	H	Cl
E1-25.21	Z25, R ^a is H	F	H	CH ₃
E1-25.22	Z25, R ^a is H	Cl	H	CH ₃

Table 1.E1



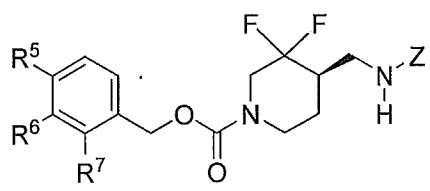
compound	Z	R ⁵	R ⁶	R ⁷
E1-25.23	Z25, R ^a is H	SCH ₃	H	H
E1-25.24	Z25, R ^a is H	SO ₂ CH ₃	H	H
E1-25.25	Z25, R ^a is H	ethynyl	H	H
E1-26.1	Z26, R ^a is H	H	H	H
E1-26.2	Z26, R ^a is H	CH ₃	H	H
E1-26.3	Z26, R ^a is H	Cl	H	H
E1-26.4	Z26, R ^a is H	F	H	H
E1-26.5	Z26, R ^a is H	CH ₂ CH ₃	H	H
E1-26.6	Z26, R ^a is H	CF ₂ H	H	H
E1-26.7	Z26, R ^a is H	CH ₂ F	H	H
E1-26.8	Z26, R ^a is H	CF ₃	H	H
E1-26.9	Z26, R ^a is H	CF ₂ CH ₃	H	H
E1-26.10	Z26, R ^a is H	CH ₂ CF ₃	H	H
E1-26.11	Z26, R ^a is H	cyclopropyl	H	H
E1-26.12	Z26, R ^a is H	OCF ₃	H	H
E1-26.13	Z26, R ^a is H	OCF ₂ H	H	H
E1-26.14	Z26, R ^a is H	Cl	H	F
E1-26.15	Z26, R ^a is H	CH ₃	H	F
E1-26.16	Z26, R ^a is H	CH ₃	F	H
E1-26.17	Z26, R ^a is H	Cl	F	H
E1-26.18	Z26, R ^a is H	F	F	H
E1-26.19	Z26, R ^a is H	F	H	F
E1-26.20	Z26, R ^a is H	F	H	Cl
E1-26.21	Z26, R ^a is H	F	H	CH ₃
E1-26.22	Z26, R ^a is H	Cl	H	CH ₃
E1-26.23	Z26, R ^a is H	SCH ₃	H	H
E1-26.24	Z26, R ^a is H	SO ₂ CH ₃	H	H

Table 1.E1



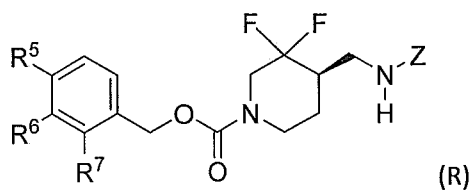
compound	Z	R ⁵	R ⁶	R ⁷
E1-26.25	Z26, R ^a is H	ethynyl	H	H
E1-27.1	Z27	H	H	H
E1-27.2	Z27	CH ₃	H	H
E1-27.3	Z27	Cl	H	H
E1-27.4	Z27	F	H	H
E1-27.5	Z27	CH ₂ CH ₃	H	H
E1-27.6	Z27	CF ₂ H	H	H
E1-27.7	Z27	CH ₂ F	H	H
E1-27.8	Z27	CF ₃	H	H
E1-27.9	Z27	CF ₂ CH ₃	H	H
E1-27.10	Z27	CH ₂ CF ₃	H	H
E1-27.11	Z27	cyclopropyl	H	H
E1-27.12	Z27	OCF ₃	H	H
E1-27.13	Z27	OCF ₂ H	H	H
E1-27.14	Z27	Cl	H	F
E1-27.15	Z27	CH ₃	H	F
E1-27.16	Z27	CH ₃	F	H
E1-27.17	Z27	Cl	F	H
E1-27.18	Z27	F	F	H
E1-27.19	Z27	F	H	F
E1-27.20	Z27	F	H	Cl
E1-27.21	Z27	F	H	CH ₃
E1-27.22	Z27	Cl	H	CH ₃
E1-27.23	Z27	SCH ₃	H	H
E1-27.24	Z27	SO ₂ CH ₃	H	H
E1-27.25	Z27	ethynyl	H	H
E1-28.1	Z28	H	H	H

Table 1.E1



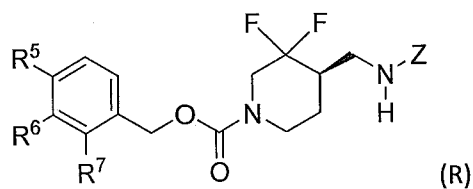
compound	Z	R ⁵	R ⁶	R ⁷
E1-28.2	Z28	CH ₃	H	H
E1-28.3	Z28	Cl	H	H
E1-28.4	Z28	F	H	H
E1-28.5	Z28	CH ₂ CH ₃	H	H
E1-28.6	Z28	CF ₂ H	H	H
E1-28.7	Z28	CH ₂ F	H	H
E1-28.8	Z28	CF ₃	H	H
E1-28.9	Z28	CF ₂ CH ₃	H	H
E1-28.10	Z28	CH ₂ CF ₃	H	H
E1-28.11	Z28	cyclopropyl	H	H
E1-28.12	Z28	OCF ₃	H	H
E1-28.13	Z28	OCF ₂ H	H	H
E1-28.14	Z28	Cl	H	F
E1-28.15	Z28	CH ₃	H	F
E1-28.16	Z28	CH ₃	F	H
E1-28.17	Z28	Cl	F	H
E1-28.18	Z28	F	F	H
E1-28.19	Z28	F	H	F
E1-28.20	Z28	F	H	Cl
E1-28.21	Z28	F	H	CH ₃
E1-28.22	Z28	Cl	H	CH ₃
E1-28.23	Z28	SCH ₃	H	H
E1-28.24	Z28	SO ₂ CH ₃	H	H
E1-28.25	Z28	ethynyl	H	H
E1-29.1	Z29	H	H	H
E1-29.2	Z29	CH ₃	H	H
E1-29.3	Z29	Cl	H	H

Table 1.E1



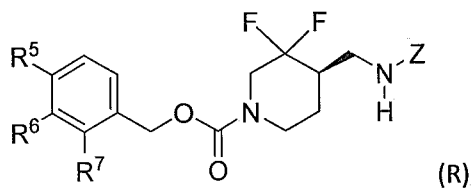
compound	Z	R ⁵	R ⁶	R ⁷
E1-29.4	Z29	F	H	H
E1-29.5	Z29	CH ₂ CH ₃	H	H
E1-29.6	Z29	CF ₂ H	H	H
E1-29.7	Z29	CH ₂ F	H	H
E1-29.8	Z29	CF ₃	H	H
E1-29.9	Z29	CF ₂ CH ₃	H	H
E1-29.10	Z29	CH ₂ CF ₃	H	H
E1-29.11	Z29	cyclopropyl	H	H
E1-29.12	Z29	OCF ₃	H	H
E1-29.13	Z29	OCF ₂ H	H	H
E1-29.14	Z29	Cl	H	F
E1-29.15	Z29	CH ₃	H	F
E1-29.16	Z29	CH ₃	F	H
E1-29.17	Z29	Cl	F	H
E1-29.18	Z29	F	F	H
E1-29.19	Z29	F	H	F
E1-29.20	Z29	F	H	Cl
E1-29.21	Z29	F	H	CH ₃
E1-29.22	Z29	Cl	H	CH ₃
E1-29.23	Z29	SCH ₃	H	H
E1-29.24	Z29	SO ₂ CH ₃	H	H
E1-29.25	Z29	ethynyl	H	H
E1-30.1	Z30	H	H	H
E1-30.2	Z30	CH ₃	H	H
E1-30.3	Z30	Cl	H	H
E1-30.4	Z30	F	H	H
E1-30.5	Z30	CH ₂ CH ₃	H	H

Table 1.E1



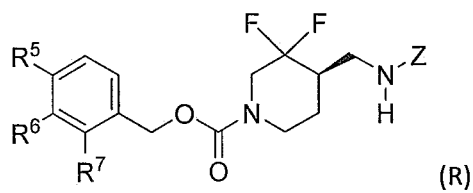
compound	Z	R ⁵	R ⁶	R ⁷
E1-30.6	Z30	CF ₂ H	H	H
E1-30.7	Z30	CH ₂ F	H	H
E1-30.8	Z30	CF ₃	H	H
E1-30.9	Z30	CF ₂ CH ₃	H	H
E1-30.10	Z30	CH ₂ CF ₃	H	H
E1-30.11	Z30	cyclopropyl	H	H
E1-30.12	Z30	OCF ₃	H	H
E1-30.13	Z30	OCF ₂ H	H	H
E1-30.14	Z30	Cl	H	F
E1-30.15	Z30	CH ₃	H	F
E1-30.16	Z30	CH ₃	F	H
E1-30.17	Z30	Cl	F	H
E1-30.18	Z30	F	F	H
E1-30.19	Z30	F	H	F
E1-30.20	Z30	F	H	Cl
E1-30.21	Z30	F	H	CH ₃
E1-30.22	Z30	Cl	H	CH ₃
E1-30.23	Z30	SCH ₃	H	H
E1-30.24	Z30	SO ₂ CH ₃	H	H
E1-30.25	Z30	ethynyl	H	H
E1-31.1	Z31	H	H	H
E1-31.2	Z31	CH ₃	H	H
E1-31.3	Z31	Cl	H	H
E1-31.4	Z31	F	H	H
E1-31.5	Z31	CH ₂ CH ₃	H	H
E1-31.6	Z31	CF ₂ H	H	H
E1-31.7	Z31	CH ₂ F	H	H

Table 1.E1



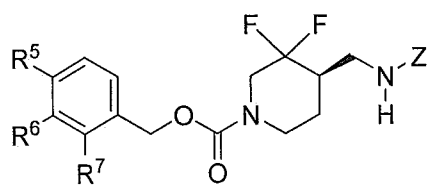
compound	Z	R ⁵	R ⁶	R ⁷
E1-31.8	Z31	CF ₃	H	H
E1-31.9	Z31	CF ₂ CH ₃	H	H
E1-31.10	Z31	CH ₂ CF ₃	H	H
E1-31.11	Z31	cyclopropyl	H	H
E1-31.12	Z31	OCF ₃	H	H
E1-31.13	Z31	OCF ₂ H	H	H
E1-31.14	Z31	Cl	H	F
E1-31.15	Z31	CH ₃	H	F
E1-31.16	Z31	CH ₃	F	H
E1-31.17	Z31	Cl	F	H
E1-31.18	Z31	F	F	H
E1-31.19	Z31	F	H	F
E1-31.20	Z31	F	H	Cl
E1-31.21	Z31	F	H	CH ₃
E1-31.22	Z31	Cl	H	CH ₃
E1-31.23	Z31	SCH ₃	H	H
E1-31.24	Z31	SO ₂ CH ₃	H	H
E1-31.25	Z31	ethynyl	H	H
E1-32.1	Z32	H	H	H
E1-32.2	Z32	CH ₃	H	H
E1-32.3	Z32	Cl	H	H
E1-32.4	Z32	F	H	H
E1-32.5	Z32	CH ₂ CH ₃	H	H
E1-32.6	Z32	CF ₂ H	H	H
E1-32.7	Z32	CH ₂ F	H	H
E1-32.8	Z32	CF ₃	H	H
E1-32.9	Z32	CF ₂ CH ₃	H	H

Table 1.E1



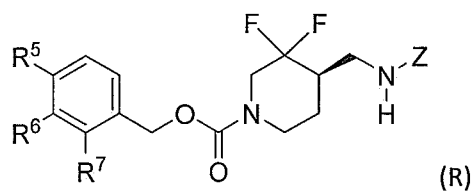
compound	Z	R ⁵	R ⁶	R ⁷
E1-32.10	Z32	CH ₂ CF ₃	H	H
E1-32.11	Z32	cyclopropyl	H	H
E1-32.12	Z32	OCF ₃	H	H
E1-32.13	Z32	OCF ₂ H	H	H
E1-32.14	Z32	Cl	H	F
E1-32.15	Z32	CH ₃	H	F
E1-32.16	Z32	CH ₃	F	H
E1-32.17	Z32	Cl	F	H
E1-32.18	Z32	F	F	H
E1-32.19	Z32	F	H	F
E1-32.20	Z32	F	H	Cl
E1-32.21	Z32	F	H	CH ₃
E1-32.22	Z32	Cl	H	CH ₃
E1-32.23	Z32	SCH ₃	H	H
E1-32.24	Z32	SO ₂ CH ₃	H	H
E1-32.25	Z32	ethynyl	H	H
E1-33.1	Z33	H	H	H
E1-33.2	Z33	CH ₃	H	H
E1-33.3	Z33	Cl	H	H
E1-33.4	Z33	F	H	H
E1-33.5	Z33	CH ₂ CH ₃	H	H
E1-33.6	Z33	CF ₂ H	H	H
E1-33.7	Z33	CH ₂ F	H	H
E1-33.8	Z33	CF ₃	H	H
E1-33.9	Z33	CF ₂ CH ₃	H	H
E1-33.10	Z33	CH ₂ CF ₃	H	H
E1-33.11	Z33	cyclopropyl	H	H

Table 1.E1



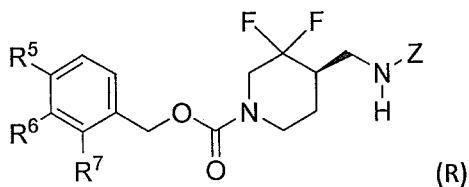
compound	Z	R ⁵	R ⁶	R ⁷
E1-33.12	Z33	OCF ₃	H	H
E1-33.13	Z33	OCF ₂ H	H	H
E1-33.14	Z33	Cl	H	F
E1-33.15	Z33	CH ₃	H	F
E1-33.16	Z33	CH ₃	F	H
E1-33.17	Z33	Cl	F	H
E1-33.18	Z33	F	F	H
E1-33.19	Z33	F	H	F
E1-33.20	Z33	F	H	Cl
E1-33.21	Z33	F	H	CH ₃
E1-33.22	Z33	Cl	H	CH ₃
E1-33.23	Z33	SCH ₃	H	H
E1-33.24	Z33	SO ₂ CH ₃	H	H
E1-33.25	Z33	ethynyl	H	H
E1-34.1	Z34	H	H	H
E1-34.2	Z34	CH ₃	H	H
E1-34.3	Z34	Cl	H	H
E1-34.4	Z34	F	H	H
E1-34.5	Z34	CH ₂ CH ₃	H	H
E1-34.6	Z34	CF ₂ H	H	H
E1-34.7	Z34	CH ₂ F	H	H
E1-34.8	Z34	CF ₃	H	H
E1-34.9	Z34	CF ₂ CH ₃	H	H
E1-34.10	Z34	CH ₂ CF ₃	H	H
E1-34.11	Z34	cyclopropyl	H	H
E1-34.12	Z34	OCF ₃	H	H
E1-34.13	Z34	OCF ₂ H	H	H

Table 1.E1



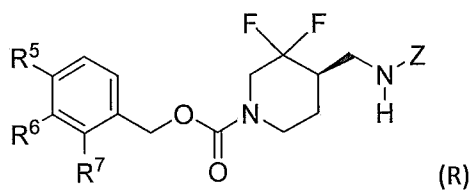
compound	Z	R ⁵	R ⁶	R ⁷
E1-34.14	Z34	Cl	H	F
E1-34.15	Z34	CH ₃	H	F
E1-34.16	Z34	CH ₃	F	H
E1-34.17	Z34	Cl	F	H
E1-34.18	Z34	F	F	H
E1-34.19	Z34	F	H	F
E1-34.20	Z34	F	H	Cl
E1-34.21	Z34	F	H	CH ₃
E1-34.22	Z34	Cl	H	CH ₃
E1-34.23	Z34	SCH ₃	H	H
E1-34.24	Z34	SO ₂ CH ₃	H	H
E1-34.25	Z34	ethynyl	H	H
E1-35.1	Z35, R ^a is H	H	H	H
E1-35.2	Z35, R ^a is H	CH ₃	H	H
E1-35.3	Z35, R ^a is H	Cl	H	H
E1-35.4	Z35, R ^a is H	F	H	H
E1-35.5	Z35, R ^a is H	CH ₂ CH ₃	H	H
E1-35.6	Z35, R ^a is H	CF ₂ H	H	H
E1-35.7	Z35, R ^a is H	CH ₂ F	H	H
E1-35.8	Z35, R ^a is H	CF ₃	H	H
E1-35.9	Z35, R ^a is H	CF ₂ CH ₃	H	H
E1-35.10	Z35, R ^a is H	CH ₂ CF ₃	H	H
E1-35.11	Z35, R ^a is H	cyclopropyl	H	H
E1-35.12	Z35, R ^a is H	OCF ₃	H	H
E1-35.13	Z35, R ^a is H	OCF ₂ H	H	H
E1-35.14	Z35, R ^a is H	Cl	H	F
E1-35.15	Z35, R ^a is H	CH ₃	H	F

Table 1.E1



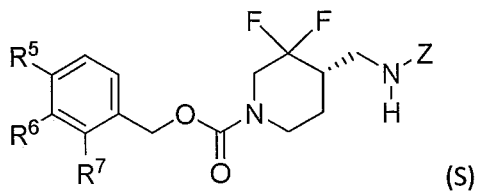
compound	Z	R ⁵	R ⁶	R ⁷
E1-35.16	Z35, R ^a is H	CH ₃	F	H
E1-35.17	Z35, R ^a is H	Cl	F	H
E1-35.18	Z35, R ^a is H	F	F	H
E1-35.19	Z35, R ^a is H	F	H	F
E1-35.20	Z35, R ^a is H	F	H	Cl
E1-35.21	Z35, R ^a is H	F	H	CH ₃
E1-35.22	Z35, R ^a is H	Cl	H	CH ₃
E1-35.23	Z35, R ^a is H	SCH ₃	H	H
E1-35.24	Z35, R ^a is H	SO ₂ CH ₃	H	H
E1-35.25	Z35, R ^a is H	ethynyl	H	H
E1-36.1	Z36, R ^a is H	H	H	H
E1-36.2	Z36, R ^a is H	CH ₃	H	H
E1-36.3	Z36, R ^a is H	Cl	H	H
E1-36.4	Z36, R ^a is H	F	H	H
E1-36.5	Z36, R ^a is H	CH ₂ CH ₃	H	H
E1-36.6	Z36, R ^a is H	CF ₂ H	H	H
E1-36.7	Z36, R ^a is H	CH ₂ F	H	H
E1-36.8	Z36, R ^a is H	CF ₃	H	H
E1-36.9	Z36, R ^a is H	CF ₂ CH ₃	H	H
E1-36.10	Z36, R ^a is H	CH ₂ CF ₃	H	H
E1-36.11	Z36, R ^a is H	cyclopropyl	H	H
E1-36.12	Z36, R ^a is H	OCF ₃	H	H
E1-36.13	Z36, R ^a is H	OCF ₂ H	H	H
E1-36.14	Z36, R ^a is H	Cl	H	F
E1-36.15	Z36, R ^a is H	CH ₃	H	F
E1-36.16	Z36, R ^a is H	CH ₃	F	H
E1-36.17	Z36, R ^a is H	Cl	F	H

Table 1.E1



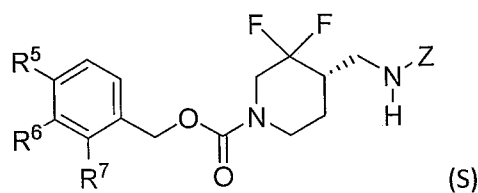
compound	Z	R ⁵	R ⁶	R ⁷
E1-36.18	Z36, R ^a is H	F	F	H
E1-36.19	Z36, R ^a is H	F	H	F
E1-36.20	Z36, R ^a is H	F	H	Cl
E1-36.21	Z36, R ^a is H	F	H	CH ₃
E1-36.22	Z36, R ^a is H	Cl	H	CH ₃
E1-36.23	Z36, R ^a is H	SCH ₃	H	H
E1-36.24	Z36, R ^a is H	SO ₂ CH ₃	H	H
E1-36.25	Z36, R ^a is H	ethynyl	H	H

Table 1.E2



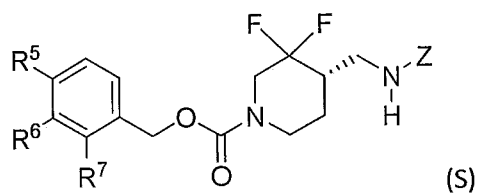
compound	Z	R ⁵	R ⁶	R ⁷
E2-1.1	Z1	H	H	H
E2-1.2	Z1	CH ₃	H	H
E2-1.3	Z1	Cl	H	H
E2-1.4	Z1	F	H	H
E2-1.5	Z1	CH ₂ CH ₃	H	H
E2-1.6	Z1	CF ₂ H	H	H
E2-1.7	Z1	CH ₂ F	H	H
E2-1.8	Z1	CF ₃	H	H
E2-1.9	Z1	CF ₂ CH ₃	H	H
E2-1.10	Z1	CH ₂ CF ₃	H	H

Table 1.E2



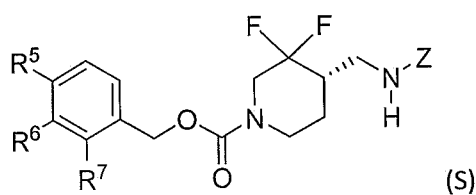
compound	Z	R ⁵	R ⁶	R ⁷
E2-1.11	Z1	cyclopropyl	H	H
E2-1.12	Z1	OCF ₃	H	H
E2-1.13	Z1	OCF ₂ H	H	H
E2-1.14	Z1	Cl	H	F
E2-1.15	Z1	CH ₃	H	F
E2-1.16	Z1	CH ₃	F	H
E2-1.17	Z1	Cl	F	H
E2-1.18	Z1	F	F	H
E2-1.19	Z1	F	H	F
E2-1.20	Z1	F	H	Cl
E2-1.21	Z1	F	H	CH ₃
E2-1.22	Z1	Cl	H	CH ₃
E2-1.23	Z1	SCH ₃	H	H
E2-1.24	Z1	SO ₂ CH ₃	H	H
E2-1.25	Z1	ethynyl	H	H
E2-2.1	Z2	H	H	H
E2-2.2	Z2	CH ₃	H	H
E2-2.3	Z2	Cl	H	H
E2-2.4	Z2	F	H	H
E2-2.5	Z2	CH ₂ CH ₃	H	H
E2-2.6	Z2	CF ₂ H	H	H
E2-2.7	Z2	CH ₂ F	H	H
E2-2.8	Z2	CF ₃	H	H
E2-2.9	Z2	CF ₂ CH ₃	H	H
E2-2.10	Z2	CH ₂ CF ₃	H	H
E2-2.11	Z2	cyclopropyl	H	H
E2-2.12	Z2	OCF ₃	H	H

Table 1.E2



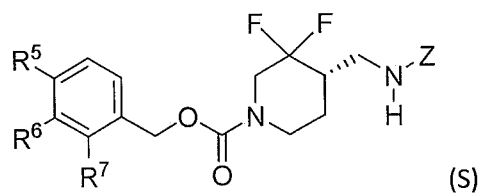
compound	Z	R ⁵	R ⁶	R ⁷
E2-2.13	Z2	OCF ₂ H	H	H
E2-2.14	Z2	Cl	H	F
E2-2.15	Z2	CH ₃	H	F
E2-2.16	Z2	CH ₃	F	H
E2-2.17	Z2	Cl	F	H
E2-2.18	Z2	F	F	H
E2-2.19	Z2	F	H	F
E2-2.20	Z2	F	H	Cl
E2-2.21	Z2	F	H	CH ₃
E2-2.22	Z2	Cl	H	CH ₃
E2-2.23	Z2	SCH ₃	H	H
E2-2.24	Z2	SO ₂ CH ₃	H	H
E2-2.25	Z2	ethynyl	H	H
E2-3.1	Z3	H	H	H
E2-3.2	Z3	CH ₃	H	H
E2-3.3	Z3	Cl	H	H
E2-3.4	Z3	F	H	H
E2-3.5	Z3	CH ₂ CH ₃	H	H
E2-3.6	Z3	CF ₂ H	H	H
E2-3.7	Z3	CH ₂ F	H	H
E2-3.8	Z3	CF ₃	H	H
E2-3.9	Z3	CF ₂ CH ₃	H	H
E2-3.10	Z3	CH ₂ CF ₃	H	H
E2-3.11	Z3	cyclopropyl	H	H
E2-3.12	Z3	OCF ₃	H	H
E2-3.13	Z3	OCF ₂ H	H	H
E2-3.14	Z3	Cl	H	F

Table 1.E2



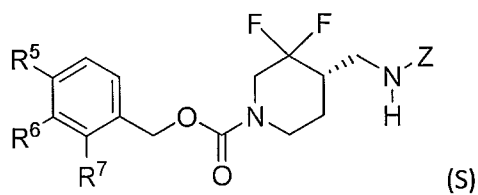
compound	Z	R ⁵	R ⁶	R ⁷
E2-3.15	Z3	CH ₃	H	F
E2-3.16	Z3	CH ₃	F	H
E2-3.17	Z3	Cl	F	H
E2-3.18	Z3	F	F	H
E2-3.19	Z3	F	H	F
E2-3.20	Z3	F	H	Cl
E2-3.21	Z3	F	H	CH ₃
E2-3.22	Z3	Cl	H	CH ₃
E2-3.23	Z3	SCH ₃	H	H
E2-3.24	Z3	SO ₂ CH ₃	H	H
E2-3.25	Z3	ethynyl	H	H
E2-4.1	Z4	H	H	H
E2-4.2	Z4	CH ₃	H	H
E2-4.3	Z4	Cl	H	H
E2-4.4	Z4	F	H	H
E2-4.5	Z4	CH ₂ CH ₃	H	H
E2-4.6	Z4	CF ₂ H	H	H
E2-4.7	Z4	CH ₂ F	H	H
E2-4.8	Z4	CF ₃	H	H
E2-4.9	Z4	CF ₂ CH ₃	H	H
E2-4.10	Z4	CH ₂ CF ₃	H	H
E2-4.11	Z4	cyclopropyl	H	H
E2-4.12	Z4	OCF ₃	H	H
E2-4.13	Z4	OCF ₂ H	H	H
E2-4.14	Z4	Cl	H	F
E2-4.15	Z4	CH ₃	H	F
E2-4.16	Z4	CH ₃	F	H

Table 1.E2



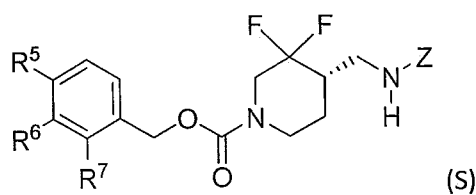
compound	Z	R ⁵	R ⁶	R ⁷
E2-4.17	Z4	Cl	F	H
E2-4.18	Z4	F	F	H
E2-4.19	Z4	F	H	F
E2-4.20	Z4	F	H	Cl
E2-4.21	Z4	F	H	CH ₃
E2-4.22	Z4	Cl	H	CH ₃
E2-4.23	Z4	SCH ₃	H	H
E2-4.24	Z4	SO ₂ CH ₃	H	H
E2-4.25	Z4	ethynyl	H	H
E2-5.1	Z5	H	H	H
E2-5.2	Z5	CH ₃	H	H
E2-5.3	Z5	Cl	H	H
E2-5.4	Z5	F	H	H
E2-5.5	Z5	CH ₂ CH ₃	H	H
E2-5.6	Z5	CF ₂ H	H	H
E2-5.7	Z5	CH ₂ F	H	H
E2-5.8	Z5	CF ₃	H	H
E2-5.9	Z5	CF ₂ CH ₃	H	H
E2-5.10	Z5	CH ₂ CF ₃	H	H
E2-5.11	Z5	cyclopropyl	H	H
E2-5.12	Z5	OCF ₃	H	H
E2-5.13	Z5	OCF ₂ H	H	H
E2-5.14	Z5	Cl	H	F
E2-5.15	Z5	CH ₃	H	F
E2-5.16	Z5	CH ₃	F	H
E2-5.17	Z5	Cl	F	H
E2-5.18	Z5	F	F	H

Table 1.E2



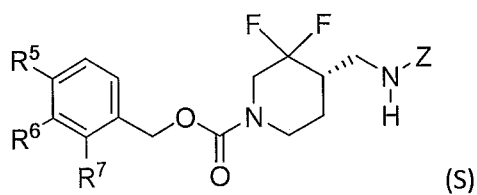
compound	Z	R ⁵	R ⁶	R ⁷
E2-5.19	Z5	F	H	F
E2-5.20	Z5	F	H	Cl
E2-5.21	Z5	F	H	CH ₃
E2-5.22	Z5	Cl	H	CH ₃
E2-5.23	Z5	SCH ₃	H	H
E2-5.24	Z5	SO ₂ CH ₃	H	H
E2-5.25	Z5	ethynyl	H	H
E2-6.1	Z6, R ^a is H	H	H	H
E2-6.2	Z6, R ^a is H	CH ₃	H	H
E2-6.3	Z6, R ^a is H	Cl	H	H
E2-6.4	Z6, R ^a is H	F	H	H
E2-6.5	Z6, R ^a is H	CH ₂ CH ₃	H	H
E2-6.6	Z6, R ^a is H	CF ₂ H	H	H
E2-6.7	Z6, R ^a is H	CH ₂ F	H	H
E2-6.8	Z6, R ^a is H	CF ₃	H	H
E2-6.9	Z6, R ^a is H	CF ₂ CH ₃	H	H
E2-6.10	Z6, R ^a is H	CH ₂ CF ₃	H	H
E2-6.11	Z6, R ^a is H	cyclopropyl	H	H
E2-6.12	Z6, R ^a is H	OCF ₃	H	H
E2-6.13	Z6, R ^a is H	OCF ₂ H	H	H
E2-6.14	Z6, R ^a is H	Cl	H	F
E2-6.15	Z6, R ^a is H	CH ₃	H	F
E2-6.16	Z6, R ^a is H	CH ₃	F	H
E2-6.17	Z6, R ^a is H	Cl	F	H
E2-6.18	Z6, R ^a is H	F	F	H
E2-6.19	Z6, R ^a is H	F	H	F
E2-6.20	Z6, R ^a is H	F	H	Cl

Table 1.E2



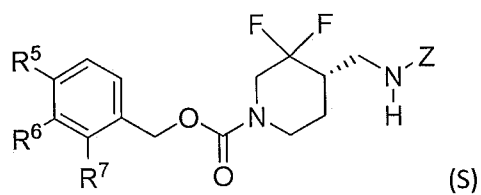
compound	Z	R ⁵	R ⁶	R ⁷
E2-6.21	Z6, R ^a is H	F	H	CH ₃
E2-6.22	Z6, R ^a is H	Cl	H	CH ₃
E2-6.23	Z6, R ^a is H	SCH ₃	H	H
E2-6.24	Z6, R ^a is H	SO ₂ CH ₃	H	H
E2-6.25	Z6, R ^a is H	ethynyl	H	H
E2-7.1	Z7, R ^a is H	H	H	H
E2-7.2	Z7, R ^a is H	CH ₃	H	H
E2-7.3	Z7, R ^a is H	Cl	H	H
E2-7.4	Z7, R ^a is H	F	H	H
E2-7.5	Z7, R ^a is H	CH ₂ CH ₃	H	H
E2-7.6	Z7, R ^a is H	CF ₂ H	H	H
E2-7.7	Z7, R ^a is H	CH ₂ F	H	H
E2-7.8	Z7, R ^a is H	CF ₃	H	H
E2-7.9	Z7, R ^a is H	CF ₂ CH ₃	H	H
E2-7.10	Z7, R ^a is H	CH ₂ CF ₃	H	H
E2-7.11	Z7, R ^a is H	cyclopropyl	H	H
E2-7.12	Z7, R ^a is H	OCF ₃	H	H
E2-7.13	Z7, R ^a is H	OCF ₂ H	H	H
E2-7.14	Z7, R ^a is H	Cl	H	F
E2-7.15	Z7, R ^a is H	CH ₃	H	F
E2-7.16	Z7, R ^a is H	CH ₃	F	H
E2-7.17	Z7, R ^a is H	Cl	F	H
E2-7.18	Z7, R ^a is H	F	F	H
E2-7.19	Z7, R ^a is H	F	H	F
E2-7.20	Z7, R ^a is H	F	H	Cl
E2-7.21	Z7, R ^a is H	F	H	CH ₃
E2-7.22	Z7, R ^a is H	Cl	H	CH ₃

Table 1.E2



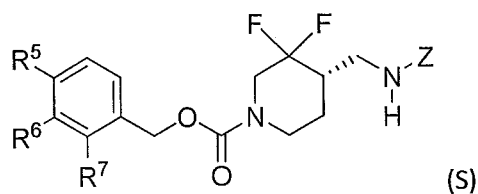
compound	Z	R ⁵	R ⁶	R ⁷
E2-7.23	Z7, R ^a is H	SCH ₃	H	H
E2-7.24	Z7, R ^a is H	SO ₂ CH ₃	H	H
E2-7.25	Z7, R ^a is H	ethynyl	H	H
E2-8.1	Z8, R ^a is H	H	H	H
E2-8.2	Z8, R ^a is H	CH ₃	H	H
E2-8.3	Z8, R ^a is H	Cl	H	H
E2-8.4	Z8, R ^a is H	F	H	H
E2-8.5	Z8, R ^a is H	CH ₂ CH ₃	H	H
E2-8.6	Z8, R ^a is H	CF ₂ H	H	H
E2-8.7	Z8, R ^a is H	CH ₂ F	H	H
E2-8.8	Z8, R ^a is H	CF ₃	H	H
E2-8.9	Z8, R ^a is H	CF ₂ CH ₃	H	H
E2-8.10	Z8, R ^a is H	CH ₂ CF ₃	H	H
E2-8.11	Z8, R ^a is H	cyclopropyl	H	H
E2-8.12	Z8, R ^a is H	OCF ₃	H	H
E2-8.13	Z8, R ^a is H	OCF ₂ H	H	H
E2-8.14	Z8, R ^a is H	Cl	H	F
E2-8.15	Z8, R ^a is H	CH ₃	H	F
E2-8.16	Z8, R ^a is H	CH ₃	F	H
E2-8.17	Z8, R ^a is H	Cl	F	H
E2-8.18	Z8, R ^a is H	F	F	H
E2-8.19	Z8, R ^a is H	F	H	F
E2-8.20	Z8, R ^a is H	F	H	Cl
E2-8.21	Z8, R ^a is H	F	H	CH ₃
E2-8.22	Z8, R ^a is H	Cl	H	CH ₃
E2-8.23	Z8, R ^a is H	SCH ₃	H	H
E2-8.24	Z8, R ^a is H	SO ₂ CH ₃	H	H

Table 1.E2



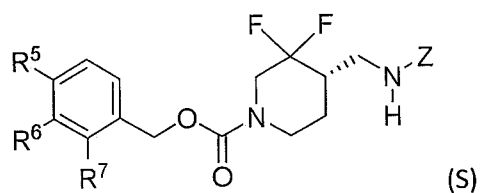
compound	Z	R ⁵	R ⁶	R ⁷
E2-8.25	Z8, R ^a is H	ethynyl	H	H
E2-9.1	Z9	H	H	H
E2-9.2	Z9	CH ₃	H	H
E2-9.3	Z9	Cl	H	H
E2-9.4	Z9	F	H	H
E2-9.5	Z9	CH ₂ CH ₃	H	H
E2-9.6	Z9	CF ₂ H	H	H
E2-9.7	Z9	CH ₂ F	H	H
E2-9.8	Z9	CF ₃	H	H
E2-9.9	Z9	CF ₂ CH ₃	H	H
E2-9.10	Z9	CH ₂ CF ₃	H	H
E2-9.11	Z9	cyclopropyl	H	H
E2-9.12	Z9	OCF ₃	H	H
E2-9.13	Z9	OCF ₂ H	H	H
E2-9.14	Z9	Cl	H	F
E2-9.15	Z9	CH ₃	H	F
E2-9.16	Z9	CH ₃	F	H
E2-9.17	Z9	Cl	F	H
E2-9.18	Z9	F	F	H
E2-9.19	Z9	F	H	F
E2-9.20	Z9	F	H	Cl
E2-9.21	Z9	F	H	CH ₃
E2-9.22	Z9	Cl	H	CH ₃
E2-9.23	Z9	SCH ₃	H	H
E2-9.24	Z9	SO ₂ CH ₃	H	H
E2-9.25	Z9	ethynyl	H	H
E2-10.1	Z10	H	H	H

Table 1.E2



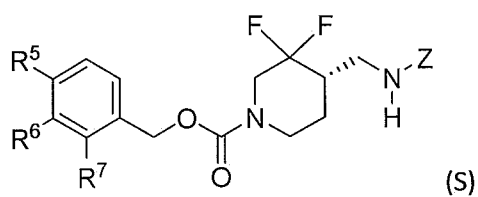
compound	Z	R ⁵	R ⁶	R ⁷
E2-10.2	Z10	CH ₃	H	H
E2-10.3	Z10	Cl	H	H
E2-10.4	Z10	F	H	H
E2-10.5	Z10	CH ₂ CH ₃	H	H
E2-10.6	Z10	CF ₂ H	H	H
E2-10.7	Z10	CH ₂ F	H	H
E2-10.8	Z10	CF ₃	H	H
E2-10.9	Z10	CF ₂ CH ₃	H	H
E2-10.10	Z10	CH ₂ CF ₃	H	H
E2-10.11	Z10	cyclopropyl	H	H
E2-10.12	Z10	OCF ₃	H	H
E2-10.13	Z10	OCF ₂ H	H	H
E2-10.14	Z10	Cl	H	F
E2-10.15	Z10	CH ₃	H	F
E2-10.16	Z10	CH ₃	F	H
E2-10.17	Z10	Cl	F	H
E2-10.18	Z10	F	F	H
E2-10.19	Z10	F	H	F
E2-10.20	Z10	F	H	Cl
E2-10.21	Z10	F	H	CH ₃
E2-10.22	Z10	Cl	H	CH ₃
E2-10.23	Z10	SCH ₃	H	H
E2-10.24	Z10	SO ₂ CH ₃	H	H
E2-10.25	Z10	ethynyl	H	H
E2-11.1	Z11, R ^a is H	H	H	H
E2-11.2	Z11, R ^a is H	CH ₃	H	H
E2-11.3	Z11, R ^a is H	Cl	H	H

Table 1.E2



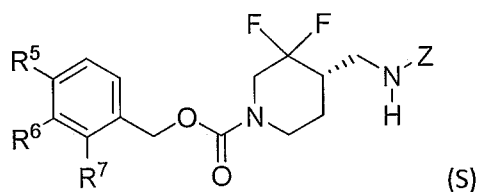
compound	Z	R ⁵	R ⁶	R ⁷
E2-11.4	Z11, R ^a is H	F	H	H
E2-11.5	Z11, R ^a is H	CH ₂ CH ₃	H	H
E2-11.6	Z11, R ^a is H	CF ₂ H	H	H
E2-11.7	Z11, R ^a is H	CH ₂ F	H	H
E2-11.8	Z11, R ^a is H	CF ₃	H	H
E2-11.9	Z11, R ^a is H	CF ₂ CH ₃	H	H
E2-11.10	Z11, R ^a is H	CH ₂ CF ₃	H	H
E2-11.11	Z11, R ^a is H	cyclopropyl	H	H
E2-11.12	Z11, R ^a is H	OCF ₃	H	H
E2-11.13	Z11, R ^a is H	OCF ₂ H	H	H
E2-11.14	Z11, R ^a is H	Cl	H	F
E2-11.15	Z11, R ^a is H	CH ₃	H	F
E2-11.16	Z11, R ^a is H	CH ₃	F	H
E2-11.17	Z11, R ^a is H	Cl	F	H
E2-11.18	Z11, R ^a is H	F	F	H
E2-11.19	Z11, R ^a is H	F	H	F
E2-11.20	Z11, R ^a is H	F	H	Cl
E2-11.21	Z11, R ^a is H	F	H	CH ₃
E2-11.22	Z11, R ^a is H	Cl	H	CH ₃
E2-11.23	Z11, R ^a is H	SCH ₃	H	H
E2-11.24	Z11, R ^a is H	SO ₂ CH ₃	H	H
E2-11.25	Z11, R ^a is H	ethynyl	H	H
E2-12.1	Z12	H	H	H
E2-12.2	Z12	CH ₃	H	H
E2-12.3	Z12	Cl	H	H
E2-12.4	Z12	F	H	H
E2-12.5	Z12	CH ₂ CH ₃	H	H

Table 1.E2



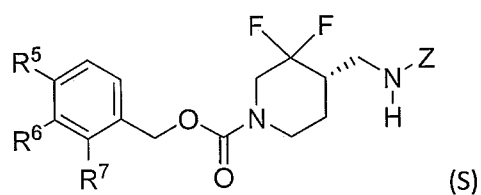
compound	Z	R ⁵	R ⁶	R ⁷
E2-12.6	Z12	CF ₂ H	H	H
E2-12.7	Z12	CH ₂ F	H	H
E2-12.8	Z12	CF ₃	H	H
E2-12.9	Z12	CF ₂ CH ₃	H	H
E2-12.10	Z12	CH ₂ CF ₃	H	H
E2-12.11	Z12	cyclopropyl	H	H
E2-12.12	Z12	OCF ₃	H	H
E2-12.13	Z12	OCF ₂ H	H	H
E2-12.14	Z12	Cl	H	F
E2-12.15	Z12	CH ₃	H	F
E2-12.16	Z12	CH ₃	F	H
E2-12.17	Z12	Cl	F	H
E2-12.18	Z12	F	F	H
E2-12.19	Z12	F	H	F
E2-12.20	Z12	F	H	Cl
E2-12.21	Z12	F	H	CH ₃
E2-12.22	Z12	Cl	H	CH ₃
E2-12.23	Z12	SCH ₃	H	H
E2-12.24	Z12	SO ₂ CH ₃	H	H
E2-12.25	Z12	ethynyl	H	H
E2-13.1	Z13, R ^a is H	H	H	H
E2-13.2	Z13, R ^a is H	CH ₃	H	H
E2-13.3	Z13, R ^a is H	Cl	H	H
E2-13.4	Z13, R ^a is H	F	H	H
E2-13.5	Z13, R ^a is H	CH ₂ CH ₃	H	H
E2-13.6	Z13, R ^a is H	CF ₂ H	H	H
E2-13.7	Z13, R ^a is H	CH ₂ F	H	H

Table 1.E2



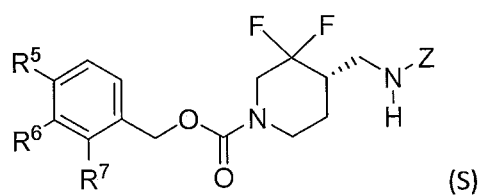
compound	Z	R ⁵	R ⁶	R ⁷
E2-13.8	Z13, R ^a is H	CF ₃	H	H
E2-13.9	Z13, R ^a is H	CF ₂ CH ₃	H	H
E2-13.10	Z13, R ^a is H	CH ₂ CF ₃	H	H
E2-13.11	Z13, R ^a is H	cyclopropyl	H	H
E2-13.12	Z13, R ^a is H	OCF ₃	H	H
E2-13.13	Z13, R ^a is H	OCF ₂ H	H	H
E2-13.14	Z13, R ^a is H	Cl	H	F
E2-13.15	Z13, R ^a is H	CH ₃	H	F
E2-13.16	Z13, R ^a is H	CH ₃	F	H
E2-13.17	Z13, R ^a is H	Cl	F	H
E2-13.18	Z13, R ^a is H	F	F	H
E2-13.19	Z13, R ^a is H	F	H	F
E2-13.20	Z13, R ^a is H	F	H	Cl
E2-13.21	Z13, R ^a is H	F	H	CH ₃
E2-13.22	Z13, R ^a is H	Cl	H	CH ₃
E2-13.23	Z13, R ^a is H	SCH ₃	H	H
E2-13.24	Z13, R ^a is H	SO ₂ CH ₃	H	H
E2-13.25	Z13, R ^a is H	ethynyl	H	H
E2-14.1	Z14, R ^a is H	H	H	H
E2-14.2	Z14, R ^a is H	CH ₃	H	H
E2-14.3	Z14, R ^a is H	Cl	H	H
E2-14.4	Z14, R ^a is H	F	H	H
E2-14.5	Z14, R ^a is H	CH ₂ CH ₃	H	H
E2-14.6	Z14, R ^a is H	CF ₂ H	H	H
E2-14.7	Z14, R ^a is H	CH ₂ F	H	H
E2-14.8	Z14, R ^a is H	CF ₃	H	H
E2-14.9	Z14, R ^a is H	CF ₂ CH ₃	H	H

Table 1.E2



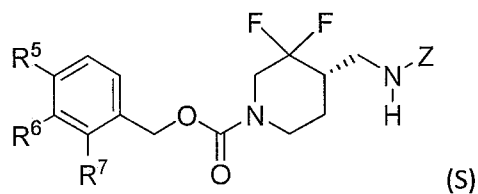
compound	Z	R ⁵	R ⁶	R ⁷
E2-14.10	Z14, R ^a is H	CH ₂ CF ₃	H	H
E2-14.11	Z14, R ^a is H	cyclopropyl	H	H
E2-14.12	Z14, R ^a is H	OCF ₃	H	H
E2-14.13	Z14, R ^a is H	OCF ₂ H	H	H
E2-14.14	Z14, R ^a is H	Cl	H	F
E2-14.15	Z14, R ^a is H	CH ₃	H	F
E2-14.16	Z14, R ^a is H	CH ₃	F	H
E2-14.17	Z14, R ^a is H	Cl	F	H
E2-14.18	Z14, R ^a is H	F	F	H
E2-14.19	Z14, R ^a is H	F	H	F
E2-14.20	Z14, R ^a is H	F	H	Cl
E2-14.21	Z14, R ^a is H	F	H	CH ₃
E2-14.22	Z14, R ^a is H	Cl	H	CH ₃
E2-14.23	Z14, R ^a is H	SCH ₃	H	H
E2-14.24	Z14, R ^a is H	SO ₂ CH ₃	H	H
E2-14.25	Z14, R ^a is H	ethynyl	H	H
E2-15.1	Z15, R ^a is H	H	H	H
E2-15.2	Z15, R ^a is H	CH ₃	H	H
E2-15.3	Z15, R ^a is H	Cl	H	H
E2-15.4	Z15, R ^a is H	F	H	H
E2-15.5	Z15, R ^a is H	CH ₂ CH ₃	H	H
E2-15.6	Z15, R ^a is H	CF ₂ H	H	H
E2-15.7	Z15, R ^a is H	CH ₂ F	H	H
E2-15.8	Z15, R ^a is H	CF ₃	H	H
E2-15.9	Z15, R ^a is H	CF ₂ CH ₃	H	H
E2-15.10	Z15, R ^a is H	CH ₂ CF ₃	H	H
E2-15.11	Z15, R ^a is H	cyclopropyl	H	H

Table 1.E2



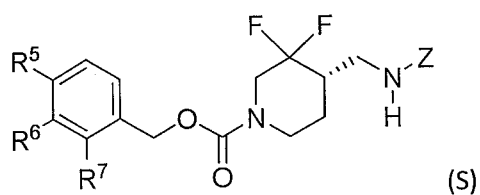
compound	Z	R ⁵	R ⁶	R ⁷
E2-15.12	Z15, R ^a is H	OCF ₃	H	H
E2-15.13	Z15, R ^a is H	OCF ₂ H	H	H
E2-15.14	Z15, R ^a is H	Cl	H	F
E2-15.15	Z15, R ^a is H	CH ₃	H	F
E2-15.16	Z15, R ^a is H	CH ₃	F	H
E2-15.17	Z15, R ^a is H	Cl	F	H
E2-15.18	Z15, R ^a is H	F	F	H
E2-15.19	Z15, R ^a is H	F	H	F
E2-15.20	Z15, R ^a is H	F	H	Cl
E2-15.21	Z15, R ^a is H	F	H	CH ₃
E2-15.22	Z15, R ^a is H	Cl	H	CH ₃
E2-15.23	Z15, R ^a is H	SCH ₃	H	H
E2-15.24	Z15, R ^a is H	SO ₂ CH ₃	H	H
E2-15.25	Z15, R ^a is H	ethynyl	H	H
E2-16.1	Z16, R ^a is H	H	H	H
E2-16.2	Z16, R ^a is H	CH ₃	H	H
E2-16.3	Z16, R ^a is H	Cl	H	H
E2-16.4	Z16, R ^a is H	F	H	H
E2-16.5	Z16, R ^a is H	CH ₂ CH ₃	H	H
E2-16.6	Z16, R ^a is H	CF ₂ H	H	H
E2-16.7	Z16, R ^a is H	CH ₂ F	H	H
E2-16.8	Z16, R ^a is H	CF ₃	H	H
E2-16.9	Z16, R ^a is H	CF ₂ CH ₃	H	H
E2-16.10	Z16, R ^a is H	CH ₂ CF ₃	H	H
E2-16.11	Z16, R ^a is H	cyclopropyl	H	H
E2-16.12	Z16, R ^a is H	OCF ₃	H	H
E2-16.13	Z16, R ^a is H	OCF ₂ H	H	H

Table 1.E2



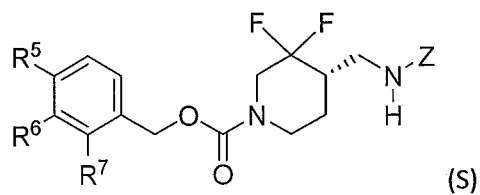
compound	Z	R ⁵	R ⁶	R ⁷
E2-16.14	Z16, R ^a is H	Cl	H	F
E2-16.15	Z16, R ^a is H	CH ₃	H	F
E2-16.16	Z16, R ^a is H	CH ₃	F	H
E2-16.17	Z16, R ^a is H	Cl	F	H
E2-16.18	Z16, R ^a is H	F	F	H
E2-16.19	Z16, R ^a is H	F	H	F
E2-16.20	Z16, R ^a is H	F	H	Cl
E2-16.21	Z16, R ^a is H	F	H	CH ₃
E2-16.22	Z16, R ^a is H	Cl	H	CH ₃
E2-16.23	Z16, R ^a is H	SCH ₃	H	H
E2-16.24	Z16, R ^a is H	SO ₂ CH ₃	H	H
E2-16.25	Z16, R ^a is H	ethynyl	H	H
E2-17.1	Z17	H	H	H
E2-17.2	Z17	CH ₃	H	H
E2-17.3	Z17	Cl	H	H
E2-17.4	Z17	F	H	H
E2-17.5	Z17	CH ₂ CH ₃	H	H
E2-17.6	Z17	CF ₂ H	H	H
E2-17.7	Z17	CH ₂ F	H	H
E2-17.8	Z17	CF ₃	H	H
E2-17.9	Z17	CF ₂ CH ₃	H	H
E2-17.10	Z17	CH ₂ CF ₃	H	H
E2-17.11	Z17	cyclopropyl	H	H
E2-17.12	Z17	OCF ₃	H	H
E2-17.13	Z17	OCF ₂ H	H	H
E2-17.14	Z17	Cl	H	F
E2-17.15	Z17	CH ₃	H	F

Table 1.E2



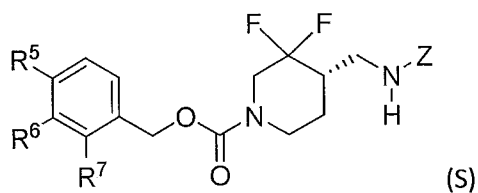
compound	Z	R ⁵	R ⁶	R ⁷
E2-17.16	Z17	CH ₃	F	H
E2-17.17	Z17	Cl	F	H
E2-17.18	Z17	F	F	H
E2-17.19	Z17	F	H	F
E2-17.20	Z17	F	H	Cl
E2-17.21	Z17	F	H	CH ₃
E2-17.22	Z17	Cl	H	CH ₃
E2-17.23	Z17	SCH ₃	H	H
E2-17.24	Z17	SO ₂ CH ₃	H	H
E2-17.25	Z17	ethynyl	H	H
E2-18.1	Z18	H	H	H
E2-18.2	Z18	CH ₃	H	H
E2-18.3	Z18	Cl	H	H
E2-18.4	Z18	F	H	H
E2-18.5	Z18	CH ₂ CH ₃	H	H
E2-18.6	Z18	CF ₂ H	H	H
E2-18.7	Z18	CH ₂ F	H	H
E2-18.8	Z18	CF ₃	H	H
E2-18.9	Z18	CF ₂ CH ₃	H	H
E2-18.10	Z18	CH ₂ CF ₃	H	H
E2-18.11	Z18	cyclopropyl	H	H
E2-18.12	Z18	OCF ₃	H	H
E2-18.13	Z18	OCF ₂ H	H	H
E2-18.14	Z18	Cl	H	F
E2-18.15	Z18	CH ₃	H	F
E2-18.16	Z18	CH ₃	F	H
E2-18.17	Z18	Cl	F	H

Table 1.E2



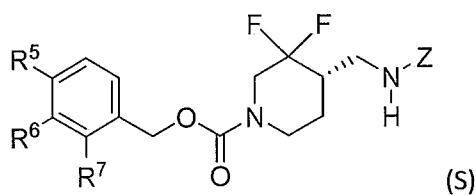
compound	Z	R ⁵	R ⁶	R ⁷
E2-18.18	Z18	F	F	H
E2-18.19	Z18	F	H	F
E2-18.20	Z18	F	H	Cl
E2-18.21	Z18	F	H	CH ₃
E2-18.22	Z18	Cl	H	CH ₃
E2-18.23	Z18	SCH ₃	H	H
E2-18.24	Z18	SO ₂ CH ₃	H	H
E2-18.25	Z18	ethynyl	H	H
E2-19.1	Z19	H	H	H
E2-19.2	Z19	CH ₃	H	H
E2-19.3	Z19	Cl	H	H
E2-19.4	Z19	F	H	H
E2-19.5	Z19	CH ₂ CH ₃	H	H
E2-19.6	Z19	CF ₂ H	H	H
E2-19.7	Z19	CH ₂ F	H	H
E2-19.8	Z19	CF ₃	H	H
E2-19.9	Z19	CF ₂ CH ₃	H	H
E2-19.10	Z19	CH ₂ CF ₃	H	H
E2-19.11	Z19	cyclopropyl	H	H
E2-19.12	Z19	OCF ₃	H	H
E2-19.13	Z19	OCF ₂ H	H	H
E2-19.14	Z19	Cl	H	F
E2-19.15	Z19	CH ₃	H	F
E2-19.16	Z19	CH ₃	F	H
E2-19.17	Z19	Cl	F	H
E2-19.18	Z19	F	F	H
E2-19.19	Z19	F	H	F

Table 1.E2



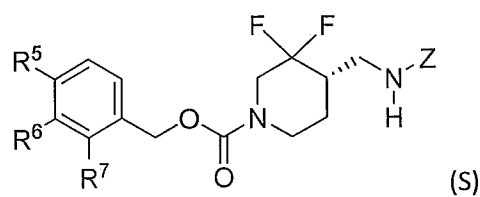
compound	Z	R ⁵	R ⁶	R ⁷
E2-19.20	Z19	F	H	Cl
E2-19.21	Z19	F	H	CH ₃
E2-19.22	Z19	Cl	H	CH ₃
E2-19.23	Z19	SCH ₃	H	H
E2-19.24	Z19	SO ₂ CH ₃	H	H
E2-19.25	Z19	ethynyl	H	H
E2-19.26	Z19	CH ₃	H	H
E2-20.1	Z20	H	H	H
E2-20.2	Z20	CH ₃	H	H
E2-20.3	Z20	Cl	H	H
E2-20.4	Z20	F	H	H
E2-20.5	Z20	CH ₂ CH ₃	H	H
E2-20.6	Z20	CF ₂ H	H	H
E2-20.7	Z20	CH ₂ F	H	H
E2-20.8	Z20	CF ₃	H	H
E2-20.9	Z20	CF ₂ CH ₃	H	H
E2-20.10	Z20	CH ₂ CF ₃	H	H
E2-20.11	Z20	cyclopropyl	H	H
E2-20.12	Z20	OCF ₃	H	H
E2-20.13	Z20	OCF ₂ H	H	H
E2-20.14	Z20	Cl	H	F
E2-20.15	Z20	CH ₃	H	F
E2-20.16	Z20	CH ₃	F	H
E2-20.17	Z20	Cl	F	H
E2-20.18	Z20	F	F	H
E2-20.19	Z20	F	H	F
E2-20.20	Z20	F	H	Cl

Table 1.E2



compound	Z	R ⁵	R ⁶	R ⁷
E2-20.21	Z20	F	H	CH ₃
E2-20.22	Z20	Cl	H	CH ₃
E2-20.23	Z20	SCH ₃	H	H
E2-20.24	Z20	SO ₂ CH ₃	H	H
E2-20.25	Z20	ethynyl	H	H
E2-21.1	Z21	H	H	H
E2-21.2	Z21	CH ₃	H	H
E2-21.3	Z21	Cl	H	H
E2-21.4	Z21	F	H	H
E2-21.5	Z21	CH ₂ CH ₃	H	H
E2-21.6	Z21	CF ₂ H	H	H
E2-21.7	Z21	CH ₂ F	H	H
E2-21.8	Z21	CF ₃	H	H
E2-21.9	Z21	CF ₂ CH ₃	H	H
E2-21.10	Z21	CH ₂ CF ₃	H	H
E2-21.11	Z21	cyclopropyl	H	H
E2-21.12	Z21	OCF ₃	H	H
E2-21.13	Z21	OCF ₂ H	H	H
E2-21.14	Z21	Cl	H	F
E2-21.15	Z21	CH ₃	H	F
E2-21.16	Z21	CH ₃	F	H
E2-21.17	Z21	Cl	F	H
E2-21.18	Z21	F	F	H
E2-21.19	Z21	F	H	F
E2-21.20	Z21	F	H	Cl
E2-21.21	Z21	F	H	CH ₃
E2-21.22	Z21	Cl	H	CH ₃

Table 1.E2



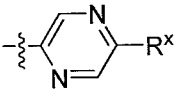
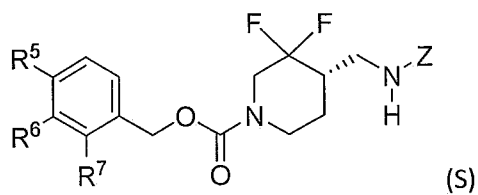
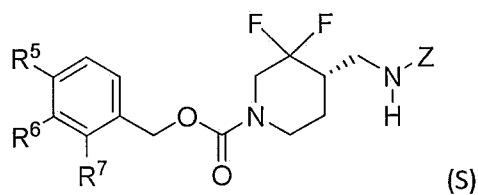
compound	Z	R ⁵	R ⁶	R ⁷
E2-21.23	Z21	SCH ₃	H	H
E2-21.24	Z21	SO ₂ CH ₃	H	H
E2-21.25	Z21	ethynyl	H	H
E2-21.26	 , R ^x is CH ₃	CH ₃	H	H
E2-22.1	Z22	H	H	H
E2-22.2	Z22	CH ₃	H	H
E2-22.3	Z22	Cl	H	H
E2-22.4	Z22	F	H	H
E2-22.5	Z22	CH ₂ CH ₃	H	H
E2-22.6	Z22	CF ₂ H	H	H
E2-22.7	Z22	CH ₂ F	H	H
E2-22.8	Z22	CF ₃	H	H
E2-22.9	Z22	CF ₂ CH ₃	H	H
E2-22.10	Z22	CH ₂ CF ₃	H	H
E2-22.11	Z22	cyclopropyl	H	H
E2-22.12	Z22	OCF ₃	H	H
E2-22.13	Z22	OCF ₂ H	H	H
E2-22.14	Z22	Cl	H	F
E2-22.15	Z22	CH ₃	H	F
E2-22.16	Z22	CH ₃	F	H
E2-22.17	Z22	Cl	F	H
E2-22.18	Z22	F	F	H
E2-22.19	Z22	F	H	F
E2-22.20	Z22	F	H	Cl
E2-22.21	Z22	F	H	CH ₃

Table 1.E2



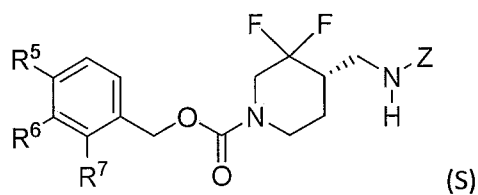
compound	Z	R ⁵	R ⁶	R ⁷
E2-22.22	Z22	Cl	H	CH ₃
E2-22.23	Z22	SCH ₃	H	H
E2-22.24	Z22	SO ₂ CH ₃	H	H
E2-22.25	Z22	ethynyl	H	H
E2-23.1	Z23	H	H	H
E2-23.2	Z23	CH ₃	H	H
E2-23.3	Z23	Cl	H	H
E2-23.4	Z23	F	H	H
E2-23.5	Z23	CH ₂ CH ₃	H	H
E2-23.6	Z23	CF ₂ H	H	H
E2-23.7	Z23	CH ₂ F	H	H
E2-23.8	Z23	CF ₃	H	H
E2-23.9	Z23	CF ₂ CH ₃	H	H
E2-23.10	Z23	CH ₂ CF ₃	H	H
E2-23.11	Z23	cyclopropyl	H	H
E2-23.12	Z23	OCF ₃	H	H
E2-23.13	Z23	OCF ₂ H	H	H
E2-23.14	Z23	Cl	H	F
E2-23.15	Z23	CH ₃	H	F
E2-23.16	Z23	CH ₃	F	H
E2-23.17	Z23	Cl	F	H
E2-23.18	Z23	F	F	H
E2-23.19	Z23	F	H	F
E2-23.20	Z23	F	H	Cl
E2-23.21	Z23	F	H	CH ₃
E2-23.22	Z23	Cl	H	CH ₃
E2-23.23	Z23	SCH ₃	H	H

Table 1.E2



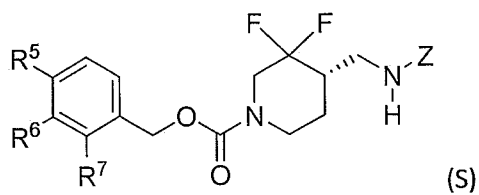
compound	Z	R ⁵	R ⁶	R ⁷
E2-23.24	Z23	SO ₂ CH ₃	H	H
E2-23.25	Z23	ethynyl	H	H
E2-24.1	Z24	H	H	H
E2-24.2	Z24	CH ₃	H	H
E2-24.3	Z24	Cl	H	H
E2-24.4	Z24	F	H	H
E2-24.5	Z24	CH ₂ CH ₃	H	H
E2-24.6	Z24	CF ₂ H	H	H
E2-24.7	Z24	CH ₂ F	H	H
E2-24.8	Z24	CF ₃	H	H
E2-24.9	Z24	CF ₂ CH ₃	H	H
E2-24.10	Z24	CH ₂ CF ₃	H	H
E2-24.11	Z24	cyclopropyl	H	H
E2-24.12	Z24	OCF ₃	H	H
E2-24.13	Z24	OCF ₂ H	H	H
E2-24.14	Z24	Cl	H	F
E2-24.15	Z24	CH ₃	H	F
E2-24.16	Z24	CH ₃	F	H
E2-24.17	Z24	Cl	F	H
E2-24.18	Z24	F	F	H
E2-24.19	Z24	F	H	F
E2-24.20	Z24	F	H	Cl
E2-24.21	Z24	F	H	CH ₃
E2-24.22	Z24	Cl	H	CH ₃
E2-24.23	Z24	SCH ₃	H	H
E2-24.24	Z24	SO ₂ CH ₃	H	H
E2-24.25	Z24	ethynyl	H	H

Table 1.E2



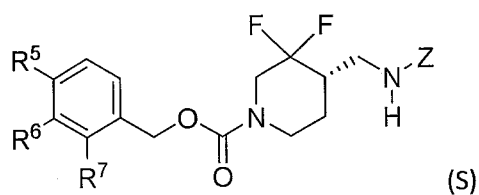
compound	Z	R ⁵	R ⁶	R ⁷
E2-25.1	Z25, R ^a is H	H	H	H
E2-25.2	Z25, R ^a is H	CH ₃	H	H
E2-25.3	Z25, R ^a is H	Cl	H	H
E2-25.4	Z25, R ^a is H	F	H	H
E2-25.5	Z25, R ^a is H	CH ₂ CH ₃	H	H
E2-25.6	Z25, R ^a is H	CF ₂ H	H	H
E2-25.7	Z25, R ^a is H	CH ₂ F	H	H
E2-25.8	Z25, R ^a is H	CF ₃	H	H
E2-25.9	Z25, R ^a is H	CF ₂ CH ₃	H	H
E2-25.10	Z25, R ^a is H	CH ₂ CF ₃	H	H
E2-25.11	Z25, R ^a is H	cyclopropyl	H	H
E2-25.12	Z25, R ^a is H	OCF ₃	H	H
E2-25.13	Z25, R ^a is H	OCF ₂ H	H	H
E2-25.14	Z25, R ^a is H	Cl	H	F
E2-25.15	Z25, R ^a is H	CH ₃	H	F
E2-25.16	Z25, R ^a is H	CH ₃	F	H
E2-25.17	Z25, R ^a is H	Cl	F	H
E2-25.18	Z25, R ^a is H	F	F	H
E2-25.19	Z25, R ^a is H	F	H	F
E2-25.20	Z25, R ^a is H	F	H	Cl
E2-25.21	Z25, R ^a is H	F	H	CH ₃
E2-25.22	Z25, R ^a is H	Cl	H	CH ₃
E2-25.23	Z25, R ^a is H	SCH ₃	H	H
E2-25.24	Z25, R ^a is H	SO ₂ CH ₃	H	H
E2-25.25	Z25, R ^a is H	ethynyl	H	H
E2-26.1	Z26, R ^a is H	H	H	H
E2-26.2	Z26, R ^a is H	CH ₃	H	H

Table 1.E2



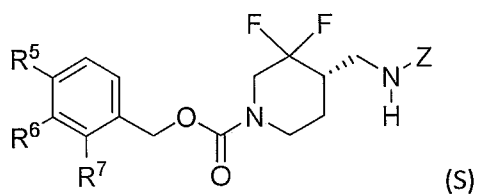
compound	Z	R ⁵	R ⁶	R ⁷
E2-26.3	Z26, R ^a is H	Cl	H	H
E2-26.4	Z26, R ^a is H	F	H	H
E2-26.5	Z26, R ^a is H	CH ₂ CH ₃	H	H
E2-26.6	Z26, R ^a is H	CF ₂ H	H	H
E2-26.7	Z26, R ^a is H	CH ₂ F	H	H
E2-26.8	Z26, R ^a is H	CF ₃	H	H
E2-26.9	Z26, R ^a is H	CF ₂ CH ₃	H	H
E2-26.10	Z26, R ^a is H	CH ₂ CF ₃	H	H
E2-26.11	Z26, R ^a is H	cyclopropyl	H	H
E2-26.12	Z26, R ^a is H	OCF ₃	H	H
E2-26.13	Z26, R ^a is H	OCF ₂ H	H	H
E2-26.14	Z26, R ^a is H	Cl	H	F
E2-26.15	Z26, R ^a is H	CH ₃	H	F
E2-26.16	Z26, R ^a is H	CH ₃	F	H
E2-26.17	Z26, R ^a is H	Cl	F	H
E2-26.18	Z26, R ^a is H	F	F	H
E2-26.19	Z26, R ^a is H	F	H	F
E2-26.20	Z26, R ^a is H	F	H	Cl
E2-26.21	Z26, R ^a is H	F	H	CH ₃
E2-26.22	Z26, R ^a is H	Cl	H	CH ₃
E2-26.23	Z26, R ^a is H	SCH ₃	H	H
E2-26.24	Z26, R ^a is H	SO ₂ CH ₃	H	H
E2-26.25	Z26, R ^a is H	ethynyl	H	H
E2-27.1	Z27	H	H	H
E2-27.2	Z27	CH ₃	H	H
E2-27.3	Z27	Cl	H	H
E2-27.4	Z27	F	H	H

Table 1.E2



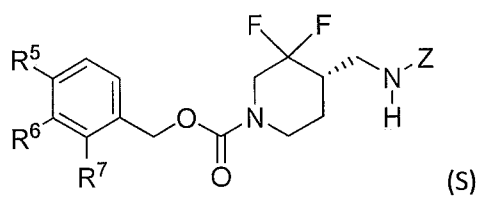
compound	Z	R ⁵	R ⁶	R ⁷
E2-27.5	Z27	CH ₂ CH ₃	H	H
E2-27.6	Z27	CF ₂ H	H	H
E2-27.7	Z27	CH ₂ F	H	H
E2-27.8	Z27	CF ₃	H	H
E2-27.9	Z27	CF ₂ CH ₃	H	H
E2-27.10	Z27	CH ₂ CF ₃	H	H
E2-27.11	Z27	cyclopropyl	H	H
E2-27.12	Z27	OCF ₃	H	H
E2-27.13	Z27	OCF ₂ H	H	H
E2-27.14	Z27	Cl	H	F
E2-27.15	Z27	CH ₃	H	F
E2-27.16	Z27	CH ₃	F	H
E2-27.17	Z27	Cl	F	H
E2-27.18	Z27	F	F	H
E2-27.19	Z27	F	H	F
E2-27.20	Z27	F	H	Cl
E2-27.21	Z27	F	H	CH ₃
E2-27.22	Z27	Cl	H	CH ₃
E2-27.23	Z27	SCH ₃	H	H
E2-27.24	Z27	SO ₂ CH ₃	H	H
E2-27.25	Z27	ethynyl	H	H
E2-28.1	Z28	H	H	H
E2-28.2	Z28	CH ₃	H	H
E2-28.3	Z28	Cl	H	H
E2-28.4	Z28	F	H	H
E2-28.5	Z28	CH ₂ CH ₃	H	H
E2-28.6	Z28	CF ₂ H	H	H

Table 1.E2



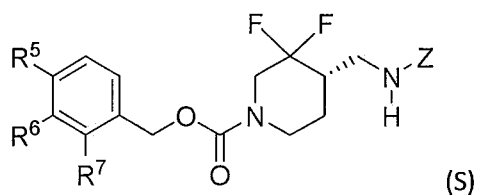
compound	Z	R ⁵	R ⁶	R ⁷
E2-28.7	Z28	CH ₂ F	H	H
E2-28.8	Z28	CF ₃	H	H
E2-28.9	Z28	CF ₂ CH ₃	H	H
E2-28.10	Z28	CH ₂ CF ₃	H	H
E2-28.11	Z28	cyclopropyl	H	H
E2-28.12	Z28	OCF ₃	H	H
E2-28.13	Z28	OCF ₂ H	H	H
E2-28.14	Z28	Cl	H	F
E2-28.15	Z28	CH ₃	H	F
E2-28.16	Z28	CH ₃	F	H
E2-28.17	Z28	Cl	F	H
E2-28.18	Z28	F	F	H
E2-28.19	Z28	F	H	F
E2-28.20	Z28	F	H	Cl
E2-28.21	Z28	F	H	CH ₃
E2-28.22	Z28	Cl	H	CH ₃
E2-28.23	Z28	SCH ₃	H	H
E2-28.24	Z28	SO ₂ CH ₃	H	H
E2-28.25	Z28	ethynyl	H	H
E2-29.1	Z29	H	H	H
E2-29.2	Z29	CH ₃	H	H
E2-29.3	Z29	Cl	H	H
E2-29.4	Z29	F	H	H
E2-29.5	Z29	CH ₂ CH ₃	H	H
E2-29.6	Z29	CF ₂ H	H	H
E2-29.7	Z29	CH ₂ F	H	H
E2-29.8	Z29	CF ₃	H	H

Table 1.E2



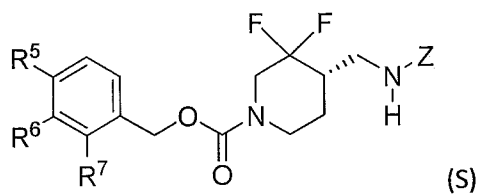
compound	Z	R ⁵	R ⁶	R ⁷
E2-29.9	Z29	CF ₂ CH ₃	H	H
E2-29.10	Z29	CH ₂ CF ₃	H	H
E2-29.11	Z29	cyclopropyl	H	H
E2-29.12	Z29	OCF ₃	H	H
E2-29.13	Z29	OCF ₂ H	H	H
E2-29.14	Z29	Cl	H	F
E2-29.15	Z29	CH ₃	H	F
E2-29.16	Z29	CH ₃	F	H
E2-29.17	Z29	Cl	F	H
E2-29.18	Z29	F	F	H
E2-29.19	Z29	F	H	F
E2-29.20	Z29	F	H	Cl
E2-29.21	Z29	F	H	CH ₃
E2-29.22	Z29	Cl	H	CH ₃
E2-29.23	Z29	SCH ₃	H	H
E2-29.24	Z29	SO ₂ CH ₃	H	H
E2-29.25	Z29	ethynyl	H	H
E2-30.1	Z30	H	H	H
E2-30.2	Z30	CH ₃	H	H
E2-30.3	Z30	Cl	H	H
E2-30.4	Z30	F	H	H
E2-30.5	Z30	CH ₂ CH ₃	H	H
E2-30.6	Z30	CF ₂ H	H	H
E2-30.7	Z30	CH ₂ F	H	H
E2-30.8	Z30	CF ₃	H	H
E2-30.9	Z30	CF ₂ CH ₃	H	H
E2-30.10	Z30	CH ₂ CF ₃	H	H

Table 1.E2



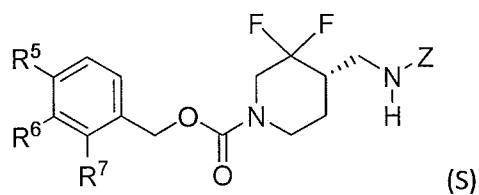
compound	Z	R ⁵	R ⁶	R ⁷
E2-30.11	Z30	cyclopropyl	H	H
E2-30.12	Z30	OCF ₃	H	H
E2-30.13	Z30	OCF ₂ H	H	H
E2-30.14	Z30	Cl	H	F
E2-30.15	Z30	CH ₃	H	F
E2-30.16	Z30	CH ₃	F	H
E2-30.17	Z30	Cl	F	H
E2-30.18	Z30	F	F	H
E2-30.19	Z30	F	H	F
E2-30.20	Z30	F	H	Cl
E2-30.21	Z30	F	H	CH ₃
E2-30.22	Z30	Cl	H	CH ₃
E2-30.23	Z30	SCH ₃	H	H
E2-30.24	Z30	SO ₂ CH ₃	H	H
E2-30.25	Z30	ethynyl	H	H
E2-31.1	Z31	H	H	H
E2-31.2	Z31	CH ₃	H	H
E2-31.3	Z31	Cl	H	H
E2-31.4	Z31	F	H	H
E2-31.5	Z31	CH ₂ CH ₃	H	H
E2-31.6	Z31	CF ₂ H	H	H
E2-31.7	Z31	CH ₂ F	H	H
E2-31.8	Z31	CF ₃	H	H
E2-31.9	Z31	CF ₂ CH ₃	H	H
E2-31.10	Z31	CH ₂ CF ₃	H	H
E2-31.11	Z31	cyclopropyl	H	H
E2-31.12	Z31	OCF ₃	H	H

Table 1.E2



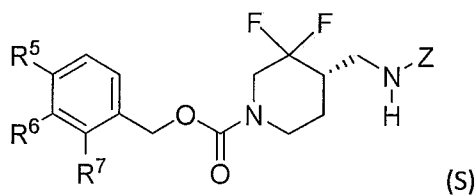
compound	Z	R ⁵	R ⁶	R ⁷
E2-31.13	Z31	OCF ₂ H	H	H
E2-31.14	Z31	Cl	H	F
E2-31.15	Z31	CH ₃	H	F
E2-31.16	Z31	CH ₃	F	H
E2-31.17	Z31	Cl	F	H
E2-31.18	Z31	F	F	H
E2-31.19	Z31	F	H	F
E2-31.20	Z31	F	H	Cl
E2-31.21	Z31	F	H	CH ₃
E2-31.22	Z31	Cl	H	CH ₃
E2-31.23	Z31	SCH ₃	H	H
E2-31.24	Z31	SO ₂ CH ₃	H	H
E2-31.25	Z31	ethynyl	H	H
E2-32.1	Z32	H	H	H
E2-32.2	Z32	CH ₃	H	H
E2-32.3	Z32	Cl	H	H
E2-32.4	Z32	F	H	H
E2-32.5	Z32	CH ₂ CH ₃	H	H
E2-32.6	Z32	CF ₂ H	H	H
E2-32.7	Z32	CH ₂ F	H	H
E2-32.8	Z32	CF ₃	H	H
E2-32.9	Z32	CF ₂ CH ₃	H	H
E2-32.10	Z32	CH ₂ CF ₃	H	H
E2-32.11	Z32	cyclopropyl	H	H
E2-32.12	Z32	OCF ₃	H	H
E2-32.13	Z32	OCF ₂ H	H	H
E2-32.14	Z32	Cl	H	F

Table 1.E2



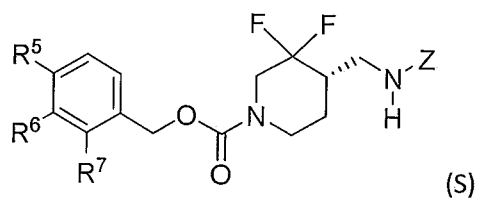
compound	Z	R ⁵	R ⁶	R ⁷
E2-32.15	Z32	CH ₃	H	F
E2-32.16	Z32	CH ₃	F	H
E2-32.17	Z32	Cl	F	H
E2-32.18	Z32	F	F	H
E2-32.19	Z32	F	H	F
E2-32.20	Z32	F	H	Cl
E2-32.21	Z32	F	H	CH ₃
E2-32.22	Z32	Cl	H	CH ₃
E2-32.23	Z32	SCH ₃	H	H
E2-32.24	Z32	SO ₂ CH ₃	H	H
E2-32.25	Z32	ethynyl	H	H
E2-33.1	Z33	H	H	H
E2-33.2	Z33	CH ₃	H	H
E2-33.3	Z33	Cl	H	H
E2-33.4	Z33	F	H	H
E2-33.5	Z33	CH ₂ CH ₃	H	H
E2-33.6	Z33	CF ₂ H	H	H
E2-33.7	Z33	CH ₂ F	H	H
E2-33.8	Z33	CF ₃	H	H
E2-33.9	Z33	CF ₂ CH ₃	H	H
E2-33.10	Z33	CH ₂ CF ₃	H	H
E2-33.11	Z33	cyclopropyl	H	H
E2-33.12	Z33	OCF ₃	H	H
E2-33.13	Z33	OCF ₂ H	H	H
E2-33.14	Z33	Cl	H	F
E2-33.15	Z33	CH ₃	H	F
E2-33.16	Z33	CH ₃	F	H

Table 1.E2



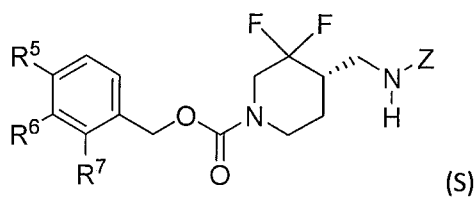
compound	Z	R ⁵	R ⁶	R ⁷
E2-33.17	Z33	Cl	F	H
E2-33.18	Z33	F	F	H
E2-33.19	Z33	F	H	F
E2-33.20	Z33	F	H	Cl
E2-33.21	Z33	F	H	CH ₃
E2-33.22	Z33	Cl	H	CH ₃
E2-33.23	Z33	SCH ₃	H	H
E2-33.24	Z33	SO ₂ CH ₃	H	H
E2-33.25	Z33	ethynyl	H	H
E2-34.1	Z34	H	H	H
E2-34.2	Z34	CH ₃	H	H
E2-34.3	Z34	Cl	H	H
E2-34.4	Z34	F	H	H
E2-34.5	Z34	CH ₂ CH ₃	H	H
E2-34.6	Z34	CF ₂ H	H	H
E2-34.7	Z34	CH ₂ F	H	H
E2-34.8	Z34	CF ₃	H	H
E2-34.9	Z34	CF ₂ CH ₃	H	H
E2-34.10	Z34	CH ₂ CF ₃	H	H
E2-34.11	Z34	cyclopropyl	H	H
E2-34.12	Z34	OCF ₃	H	H
E2-34.13	Z34	OCF ₂ H	H	H
E2-34.14	Z34	Cl	H	F
E2-34.15	Z34	CH ₃	H	F
E2-34.16	Z34	CH ₃	F	H
E2-34.17	Z34	Cl	F	H
E2-34.18	Z34	F	F	H

Table 1.E2



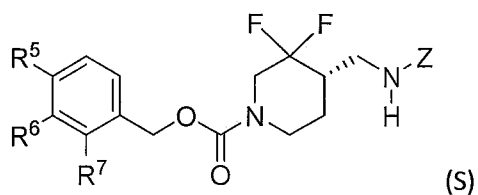
compound	Z	R ⁵	R ⁶	R ⁷
E2-34.19	Z34	F	H	F
E2-34.20	Z34	F	H	Cl
E2-34.21	Z34	F	H	CH ₃
E2-34.22	Z34	Cl	H	CH ₃
E2-34.23	Z34	SCH ₃	H	H
E2-34.24	Z34	SO ₂ CH ₃	H	H
E2-34.25	Z34	ethynyl	H	H
E2-35.1	Z35, R ^a is H	H	H	H
E2-35.2	Z35, R ^a is H	CH ₃	H	H
E2-35.3	Z35, R ^a is H	Cl	H	H
E2-35.4	Z35, R ^a is H	F	H	H
E2-35.5	Z35, R ^a is H	CH ₂ CH ₃	H	H
E2-35.6	Z35, R ^a is H	CF ₂ H	H	H
E2-35.7	Z35, R ^a is H	CH ₂ F	H	H
E2-35.8	Z35, R ^a is H	CF ₃	H	H
E2-35.9	Z35, R ^a is H	CF ₂ CH ₃	H	H
E2-35.10	Z35, R ^a is H	CH ₂ CF ₃	H	H
E2-35.11	Z35, R ^a is H	cyclopropyl	H	H
E2-35.12	Z35, R ^a is H	OCF ₃	H	H
E2-35.13	Z35, R ^a is H	OCF ₂ H	H	H
E2-35.14	Z35, R ^a is H	Cl	H	F
E2-35.15	Z35, R ^a is H	CH ₃	H	F
E2-35.16	Z35, R ^a is H	CH ₃	F	H
E2-35.17	Z35, R ^a is H	Cl	F	H
E2-35.18	Z35, R ^a is H	F	F	H
E2-35.19	Z35, R ^a is H	F	H	F
E2-35.20	Z35, R ^a is H	F	H	Cl

Table 1.E2



compound	Z	R ⁵	R ⁶	R ⁷
E2-35.21	Z35, R ^a is H	F	H	CH ₃
E2-35.22	Z35, R ^a is H	Cl	H	CH ₃
E2-35.23	Z35, R ^a is H	SCH ₃	H	H
E2-35.24	Z35, R ^a is H	SO ₂ CH ₃	H	H
E2-35.25	Z35, R ^a is H	ethynyl	H	H
E2-36.1	Z36, R ^a is H	H	H	H
E2-36.2	Z36, R ^a is H	CH ₃	H	H
E2-36.3	Z36, R ^a is H	Cl	H	H
E2-36.4	Z36, R ^a is H	F	H	H
E2-36.5	Z36, R ^a is H	CH ₂ CH ₃	H	H
E2-36.6	Z36, R ^a is H	CF ₂ H	H	H
E2-36.7	Z36, R ^a is H	CH ₂ F	H	H
E2-36.8	Z36, R ^a is H	CF ₃	H	H
E2-36.9	Z36, R ^a is H	CF ₂ CH ₃	H	H
E2-36.10	Z36, R ^a is H	CH ₂ CF ₃	H	H
E2-36.11	Z36, R ^a is H	cyclopropyl	H	H
E2-36.12	Z36, R ^a is H	OCF ₃	H	H
E2-36.13	Z36, R ^a is H	OCF ₂ H	H	H
E2-36.14	Z36, R ^a is H	Cl	H	F
E2-36.15	Z36, R ^a is H	CH ₃	H	F
E2-36.16	Z36, R ^a is H	CH ₃	F	H
E2-36.17	Z36, R ^a is H	Cl	F	H
E2-36.18	Z36, R ^a is H	F	F	H
E2-36.19	Z36, R ^a is H	F	H	F
E2-36.20	Z36, R ^a is H	F	H	Cl
E2-36.21	Z36, R ^a is H	F	H	CH ₃
E2-36.22	Z36, R ^a is H	Cl	H	CH ₃

Table 1.E2



compound	Z	R ⁵	R ⁶	R ⁷
E2-36.23	Z36, R ^a is H	SCH ₃	H	H
E2-36.24	Z36, R ^a is H	SO ₂ CH ₃	H	H
E2-36.25	Z36, R ^a is H	ethynyl	H	H

28. A pharmaceutical composition comprising the chemical entity of claim 27 and a pharmaceutically acceptable carrier.
29. A chemical entity of claim 27 for use in treating a disease or disorder responsive to NR2B antagonism.
30. Use of a chemical entity of claim 27 in the manufacture of a medicament for treating a disease or disorder responsive to NR2B antagonism.
31. The use of claim 30, wherein the disease or disorder is depression, a seizure disorder, pain, Parkinson's disease, Huntington's disease, cerebral ischaemia, traumatic brain injury, or migraine.
32. The use of claim 31, wherein the disease or disorder is depression.