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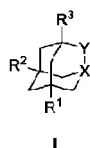
(71) Applicant: ARISAN THERAPEUTICS [US/US]; 11189
Sorrento Valley Road, Suite 104, San Diego, California
92121 (US).

(72) Inventors: **PLEWE, Michael**; 5036 Pearlman Way, San
Diego, California 92130 (US). **BROWN, Eric**; 4516 Idaho
St., San Diego, California 92116 (US). **GANTLA, Vidyas-**
agar; 4328 Corte de Sausalito, San Diego, California
92130 (US). **HENKEL, Gregory**; 3445 Circulo Adorno,
San Diego, California 92009 (US). **MCCORMACK,**
Kenneth; 218 S. Freeman St., Oceanside, California 92054
(US). **SOKOLOVA, Nadezda**; 12635 El Camino Real,
Apt. 4106, San Diego, California 92130 (US).

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DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA,
MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG,
NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS,
RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY,

[Continued on next page]

(54) Title: ADAMATANE DERIVATIVES FOR THE TREATMENT OF FILOVIRUS INFECTION



(57) Abstract: Compounds of structural
Formula (I) were developed for the
treatment of infections by filoviruses
including Ebolavirus and Marburgvir-
us.

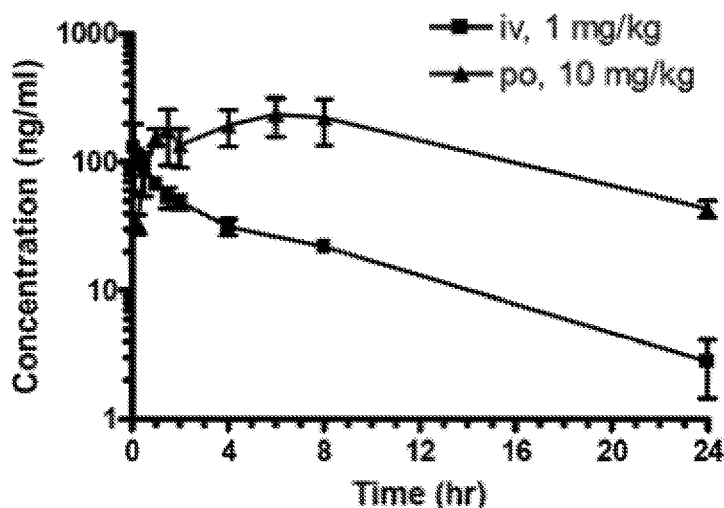


Figure 1



TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, ZA, ZM, ZW.

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TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
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SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

- as to the applicant's entitlement to claim the priority of
the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

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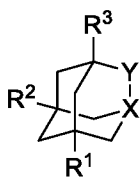
- as to applicant's entitlement to apply for and be granted
a patent (Rule 4.17(ii))

AMENDED CLAIMS

received by the International Bureau on 20 July 2017 (20.07.2017)

WHAT IS CLAIMED IS:

1. A method of treating infections associated with viruses of the *Filoviridae* enveloped virus, or any virus expressing filovirus glycoproteins to mediate cell entry comprising administration of a therapeutically effective amount of a compound of Structural Formula I



I

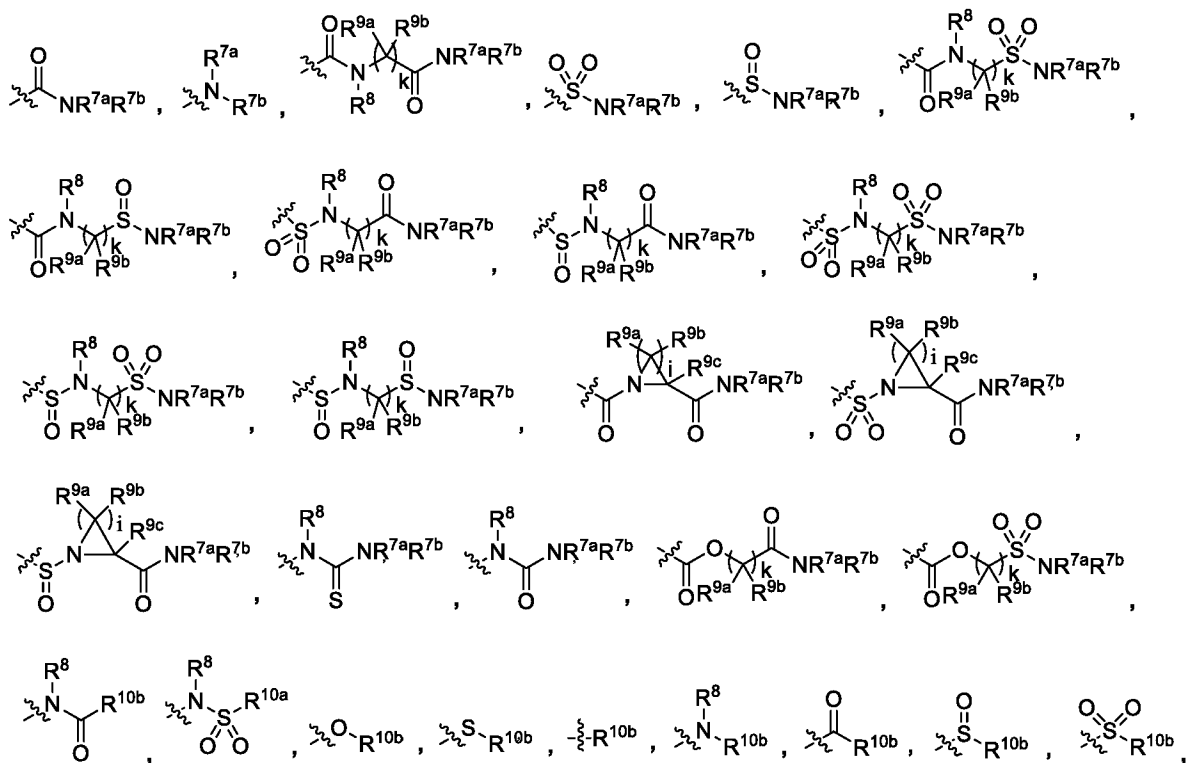
or a pharmaceutically acceptable salt, and a pharmaceutically acceptable carrier, diluent, or vehicle thereof, wherein:

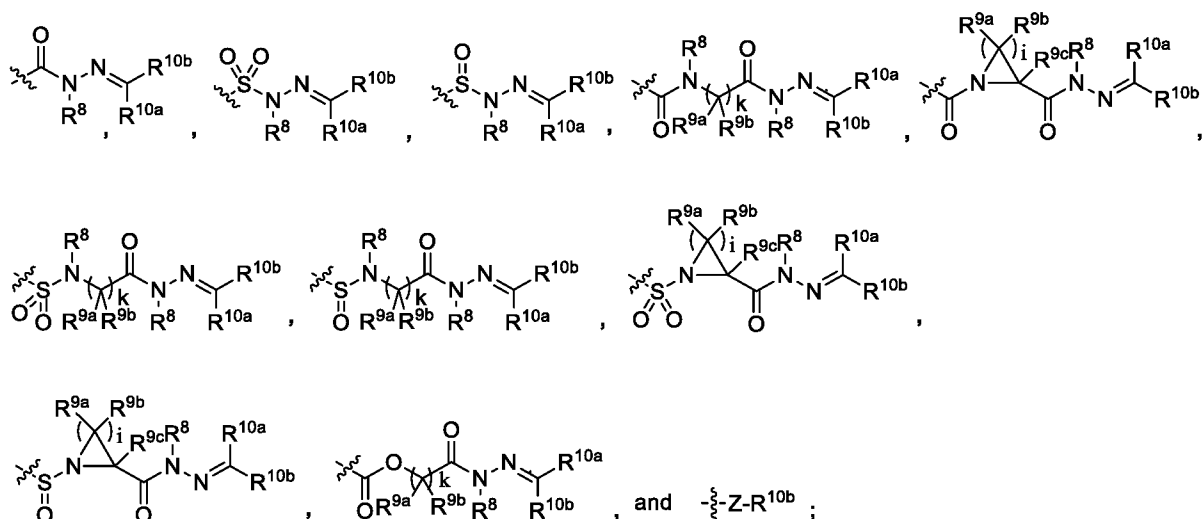
X is C-A-D, and Y is a bond or CR⁴R⁵; or

X is CR⁵ and Y is CR⁴-A-D;

A is -C(R^{6a}R^{6b})_j-;

D is selected from the group consisting of





R¹ is selected from (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R² is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R³ is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R⁴ is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R⁵ is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cyclo-alkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each of the R^{6a} and R^{6b} is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each of the R^{7a} and R^{7b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, NR^{11a}R^{11b}, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹³ group,

or R^{7a} and R^{7b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) membered cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) membered cycloheteroalkyl ring is optionally substituted with at least one R¹³ group;

each R⁸ is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹³ group;

each of the R^{9a}, R^{9b}, and R^{9c} is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each of the R^{10a} and R^{10b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each of the R^{11a} and R^{11b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹³ group,

or R^{11a} and R^{11b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group c consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R¹³ group;

each of the R¹² is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each R¹³ is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{14a}R^{14b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to

C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R¹⁵, -C(O)NR^{14a}R^{14b}, -S(O)_mR¹⁵, -S(O)_mNR^{14a}R^{14b}, -NR^{14a}S(O)_mR¹⁵, -(CH₂)_nC(O)OR¹⁵, -(CH₂)_nC(O)N(R^{14a}R^{14b}), -(CH₂)_nN(R^{14a}R^{14b}), -OC(O)R¹⁵, -O(CH₂)_nO-, -NR^{14a}C(O)R¹⁵, and -NR^{14a}C(O)N(R^{14a}R^{14b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R¹⁶ group;

each of the R^{14a} and R^{14b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹⁶ group,

or R^{14a} and R^{14b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R¹⁶ group;

each R¹⁵ is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹⁶ group;

each R¹⁶ is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{17a}R^{17b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R¹⁸, -C(O)NR^{17a}R^{17b}, -S(O)_mR¹⁸, -S(O)_mNR^{17a}R^{17b}, -NR^{17a}S(O)_mR¹⁸, -(CH₂)_nC(O)OR¹⁸, -(CH₂)_nC(O)N(R^{17a}R^{17b}), -(CH₂)_nN(R^{17a}R^{17b}), -OC(O)R¹⁸, -NR^{17a}C(O)R¹⁸, and -NR^{17a}C(O)N(R^{17a}R^{17b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) aryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R¹⁹ group;

each of the R^{17a} and R^{17b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R^{19} group,

or R^{17a} and R^{17b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R^{19} group;

each R^{18} is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, and (C₆ to C₁₀) aryl is optionally substituted with at least one R^{19} group;

each R^{19} is independently selected from hydrogen, halogen, OH, nitro, CF₃, $-NR^{20a}R^{20b}$, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, $-C(O)R^{21}$, $-C(O)NR^{20a}R^{20b}$, $-S(O)_mR^{21}$, $-S(O)_mNR^{20a}R^{20b}$, $-NR^{20a}S(O)_mR^{21}$, $-(CH_2)_nC(O)OR^{21}$, $-(CH_2)_nC(O)N(R^{20a}R^{20b})$, $-(CH_2)_nN(R^{20a}R^{20b})$, $-OC(O)R^{21}$, $-NR^{20a}C(O)R^{21}$, and $-NR^{20a}C(O)N(R^{20a}R^{20b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R^{22} group;

each of the R^{20a} and R^{20b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R^{22} group,

or R^{20a} and R^{20b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R²² group;

each R²¹ is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl;

each R²² is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{23a}R^{23b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R²⁴, -C(O)NR^{23a}R^{23b}, -S(O)_mR²⁴, -S(O)_mNR^{23a}R^{23b}, -NR^{23a}S(O)_mR²⁴, -(CH₂)_nC(O)OR²⁴, -(CH₂)_nC(O)N(R^{23a}R^{23b}), -(CH₂)_nN(R^{23a}R^{23b}), -OC(O)R²⁴, -NR^{23a}C(O)R²⁴, and -NR^{23a}C(O)N(R^{23a}R^{23b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R²⁵ group;

each of the R^{23a} and R^{23b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, and (C₆ to C₁₀) aryl;

each R²⁴ is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl;

each R²⁵ is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{26a}R^{26b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R²⁷, -C(O)NR^{26a}R^{26b}, -S(O)_mR²⁷, -S(O)_mNR^{26a}R^{26b}, -NR^{26a}S(O)_mR²⁷, -(CH₂)_nC(O)OR²⁷, -(CH₂)_nC(O)N(R^{26a}R^{26b}), -(CH₂)_nN(R^{26a}R^{26b}), -OC(O)R²⁷, -NR^{26a}C(O)R²⁷, and -NR^{26a}C(O)N(R^{26a}R^{26b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R²⁷ group;

each of the R^{26a} and R^{26b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl,

or R^{26a} and R^{26b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S;

each R²⁷ is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl;

h is 1 or 2;

i is 2, 3, 4, 5, or 6;

j is 0, 1, 2, 3, 4, or 5;

k is 1, 2, 3, 4, or 5;

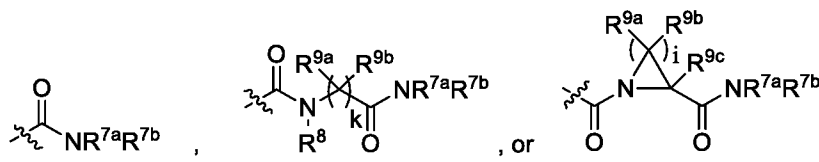
m is 0, 1 or 2;

n is 0, 1, 2, 3, or 4;

Z is selected from the group consisting of -O-, -S-, -S(O)-, and -S(O)₂-;

with the proviso that

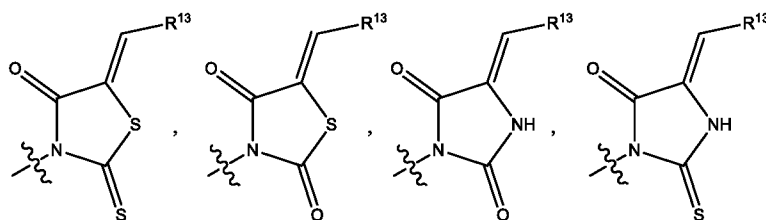
when R¹, R², or R³ is alkyl or hydrogen, X is C-C(R^{6a}R^{6b})_j-D, Y is CH₂, and D is



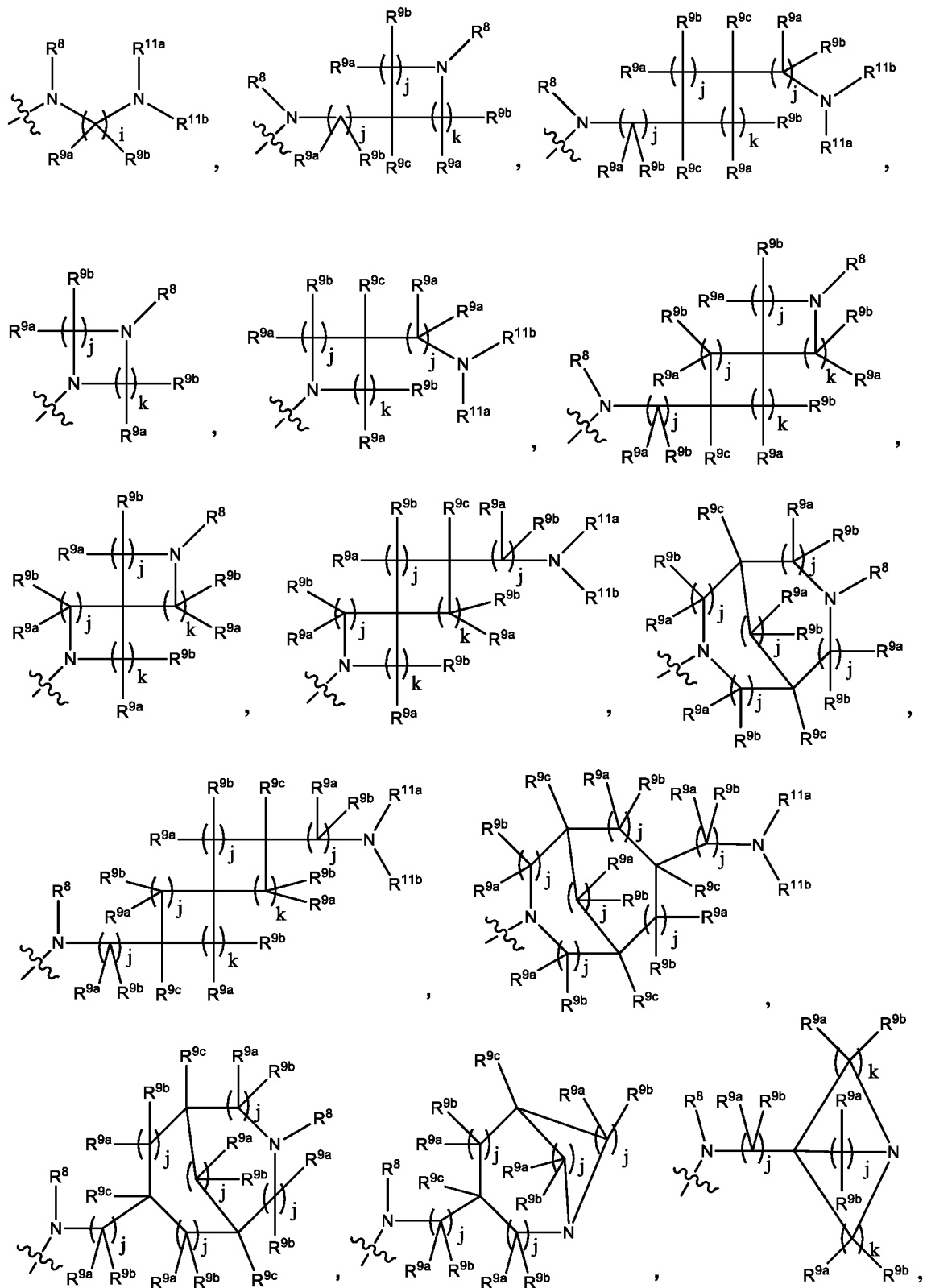
then NR^{7a}R^{7b} cannot be an optionally substituted piperazine or 1,4-diazepane,

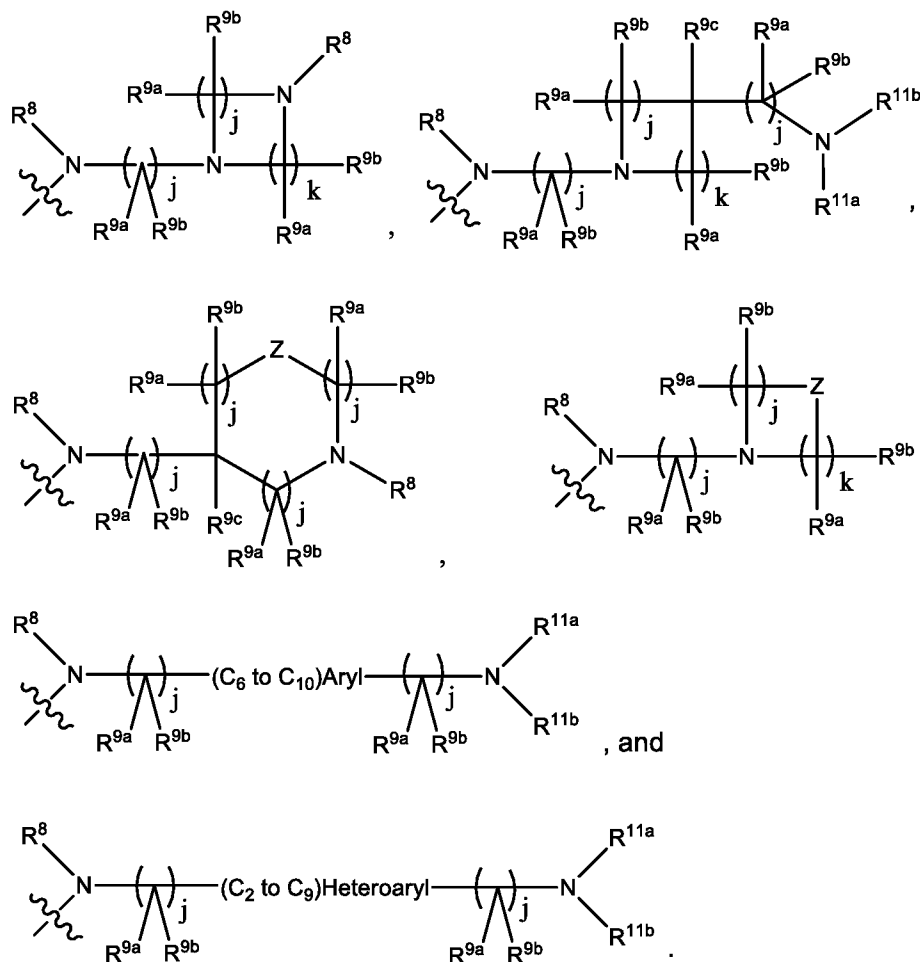
and with the proviso that

when X is CR⁵, Y is CR⁴-D, D is -NR^{7a}R^{7b}, and R^{7a} and R^{7b} are taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, the said (C₂ to C₁₀) membered cycloheteroalkyl ring cannot be selected from the group consisting of



2. The method of claim 1, wherein the infection is associated with filovirus selected from the group consisting of Ebolavirus and Marburgvirus.
3. The method of claim 2, where the filovirus is Ebolavirus.
4. The method of claim 3, including administering a therapeutic amount of a therapeutic agent selected from the group consisting of Ribavirin, viral RNA-dependent-RNA-polymerase inhibitors, Favipiravir, Triazavirin, GS-5734, small interfering RNAs (siRNAs) and microRNAs, vaccines, and immunomodulators.
5. The method of claim 4, including the inhibition of Ebolavirus glycoprotein.
6. The method of claim 1, wherein NR^{7a}R^{7b} is selected from the group consisting of



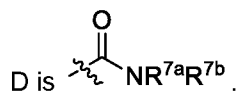


7. The method of claim 6, wherein:

X is C-A-D and Y is CR^4R^5 .

8. The method of claim 7, wherein:

5 A is $-C(R^{6a}R^{6b})_j-$;



9. The method of claim 8, wherein:

R^1 is selected from $(C_6 \text{ to } C_{10})$ aryl and $(C_2 \text{ to } C_9)$ heteroaryl, wherein

each of the said $(C_6 \text{ to } C_{10})$ aryl and $(C_2 \text{ to } C_9)$ heteroaryl is optionally substituted with at least one R^{13} group;

R^2 is selected from hydrogen, $(C_1 \text{ to } C_{10})$ alkyl, $(C_1 \text{ to } C_{10})$ alkenyl, $(C_1 \text{ to } C_{10})$ alkynyl, $(C_3 \text{ to } C_{10})$ cycloalkyl, $(C_5 \text{ to } C_{10})$ cycloalkenyl, $(C_1 \text{ to } C_{10})$ alkoxy, $-(CH_2)_nC(O)N(R^{11a}R^{11b})$, and $-C(O)R^{12}$, wherein

each of the said $(C_1 \text{ to } C_{10})$ alkyl, $(C_1 \text{ to } C_{10})$ alkenyl, $(C_1 \text{ to } C_{10})$ alkynyl, $(C_3 \text{ to } C_{10})$ cycloalkyl, $(C_5 \text{ to } C_{10})$ cycloalkenyl, and $(C_1 \text{ to } C_{10})$ alkoxy is optionally substituted with at least one R^{13} group;

R^3 is selected from hydrogen, $(C_1 \text{ to } C_{10})$ alkyl, $(C_1 \text{ to } C_{10})$ alkenyl, $(C_1 \text{ to } C_{10})$ alkynyl, $(C_3 \text{ to } C_{10})$ cycloalkyl, and $(C_5 \text{ to } C_{10})$ cycloalkenyl, wherein

each of the said $(C_1 \text{ to } C_{10})$ alkyl, $(C_1 \text{ to } C_{10})$ alkenyl, $(C_1 \text{ to } C_{10})$ alkynyl, $(C_3 \text{ to } C_{10})$ cycloalkyl,

(C₅ to C₁₀) cycloalkenyl is optionally substituted with at least one R¹³ group;

R⁴ is hydrogen;

R⁵ is hydrogen.

10. The method of claim 9, wherein:

5 R³ is hydrogen.

11. The method of claim 7, wherein:

A is -C(R^{6a}R^{6b})_J-;



12. The method of claim 11, wherein:

10 R¹ is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein

each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R² is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, -(CH₂)_nC(O)N(R^{11a}R^{11b}), and -C(O)R¹²,
15 wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R¹³ group;

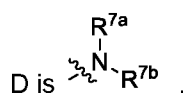
R³ is hydrogen;

R⁴ is hydrogen;

20 R⁵ is hydrogen.

13. The method of claim 7, wherein:

A is -C(R^{6a}R^{6b})_J-;



14. The method of claim 13, wherein:

25 R¹ is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein

each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R² is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, -(CH₂)_nC(O)N(R^{11a}R^{11b}), and -C(O)R¹²,
30 wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R¹³ group;

R³ is hydrogen;

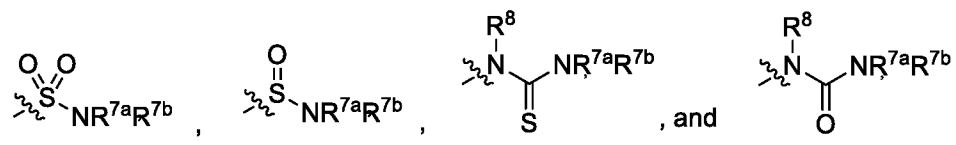
R⁴ is hydrogen;

35 R⁵ is hydrogen.

15. The method of claim 7, wherein:

A is $-C(R^{6a}R^{6b})_j-$;

D is selected from the group consisting of



16. The method of claim 15, wherein:

5 R^1 is selected from $(C_6 \text{ to } C_{10})$ aryl and $(C_2 \text{ to } C_9)$ heteroaryl, wherein each of the said $(C_6 \text{ to } C_{10})$ aryl and $(C_2 \text{ to } C_9)$ heteroaryl is optionally substituted with at least one R^{13} group;

10 R^2 is selected from hydrogen, $(C_1 \text{ to } C_{10})$ alkyl, $(C_1 \text{ to } C_{10})$ alkenyl, $(C_1 \text{ to } C_{10})$ alkynyl, $(C_3 \text{ to } C_{10})$ cycloalkyl, $(C_5 \text{ to } C_{10})$ cycloalkenyl, $(C_1 \text{ to } C_{10})$ alkoxy, $-(CH_2)_nC(O)N(R^{11a}R^{11b})$, and $-C(O)R^{12}$, wherein

each of the said $(C_1 \text{ to } C_{10})$ alkyl, $(C_1 \text{ to } C_{10})$ alkenyl, $(C_1 \text{ to } C_{10})$ alkynyl, $(C_3 \text{ to } C_{10})$ cycloalkyl, $(C_5 \text{ to } C_{10})$ cycloalkenyl, and $(C_1 \text{ to } C_{10})$ alkoxy is optionally substituted with at least one R^{13} group;

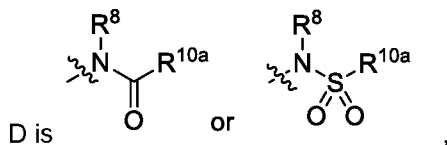
R^3 is hydrogen;

R^4 is hydrogen;

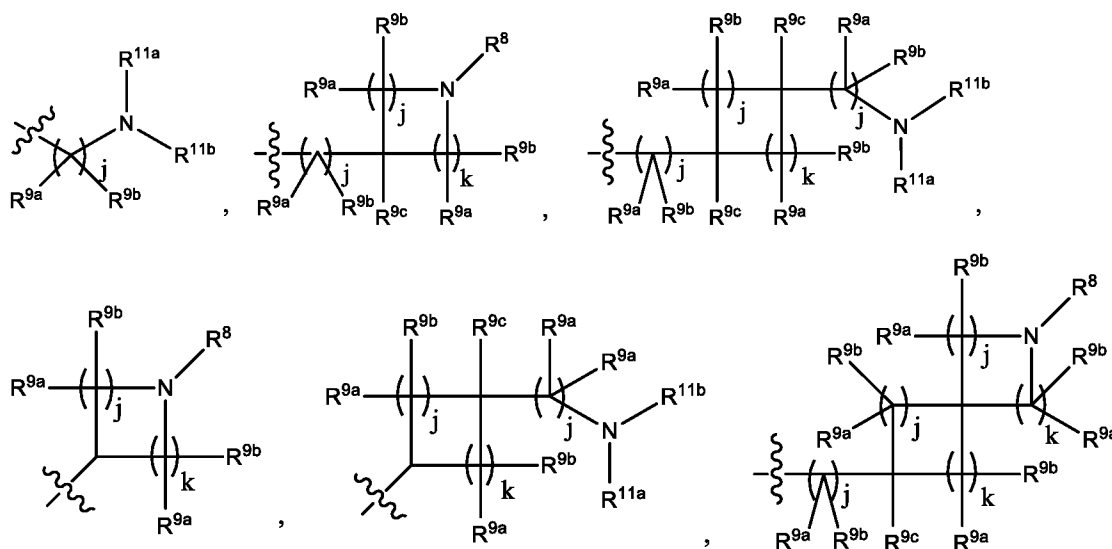
15 R^5 is hydrogen.

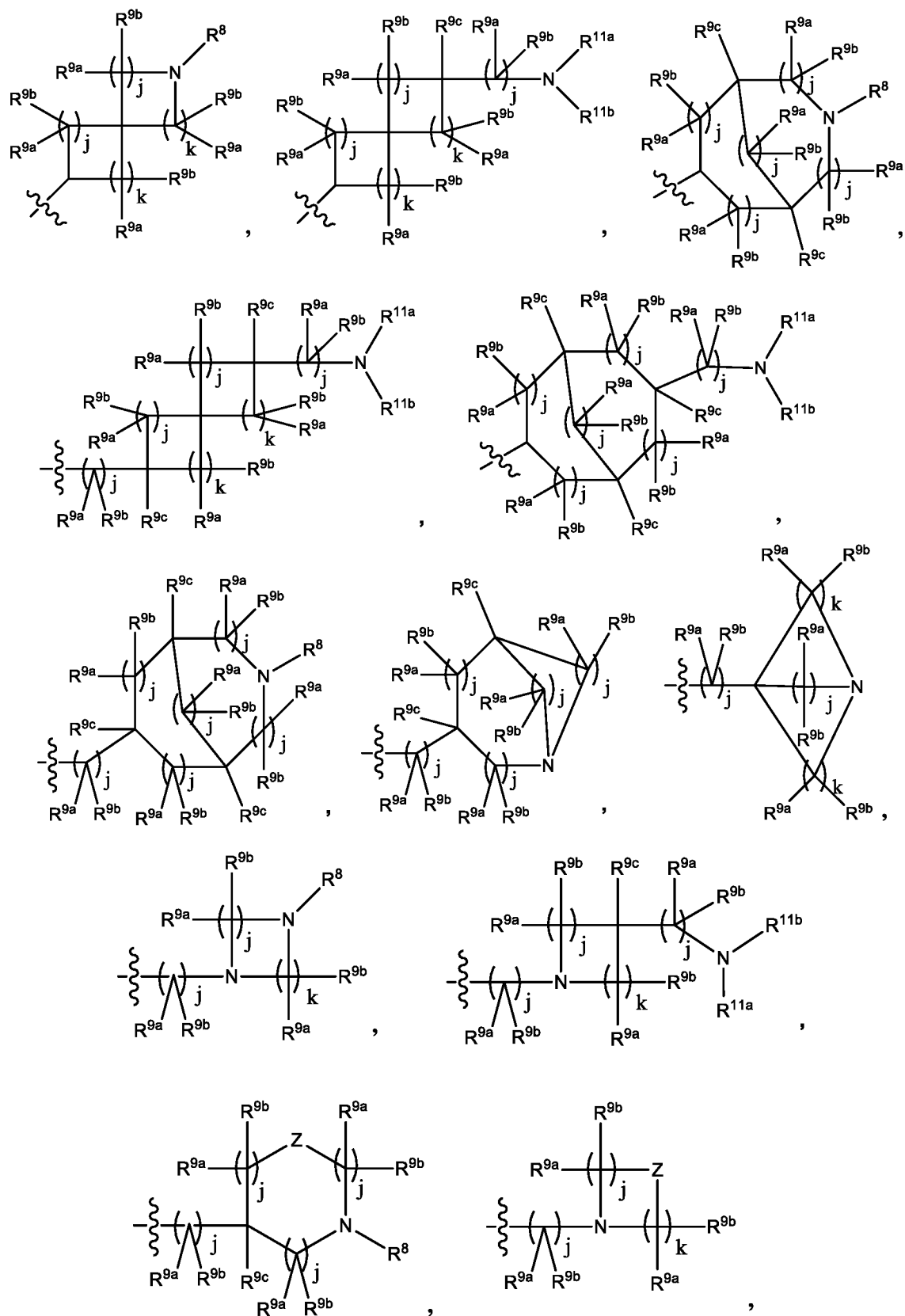
17. The method of claim 1, wherein:

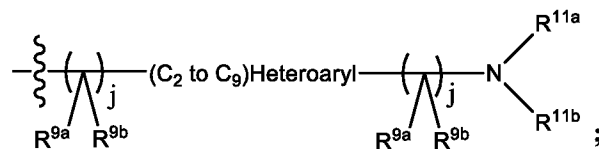
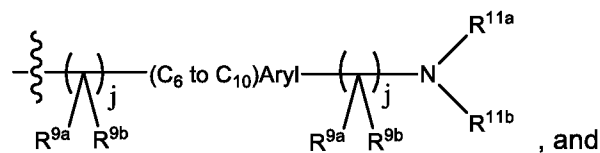
A is $-C(R^{6a}R^{6b})_j-$;



wherein R^{10a} is selected from the group consisting of







R¹ is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R² is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, -(CH₂)_nC(O)N(R^{11a}R^{11b}), and -C(O)R¹², wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R¹³ group;

R³ is hydrogen;

R⁴ is hydrogen;

R⁵ is hydrogen.

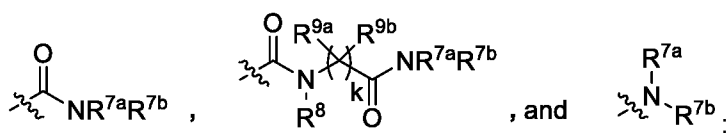
18. The method of claim 6, wherein:

X is C-A-D and Y is a bond.

19. The method of claim 18, wherein:

A is $-C(R^{6a}R^{6b})_i$;

D is selected from the group consisting of



R¹ is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group.

R² is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, -(CH₂)_nC(O)N(R^{11a}R^{11b}), and -C(O)R¹², wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R¹³ group;

R^3 is hydrogen.

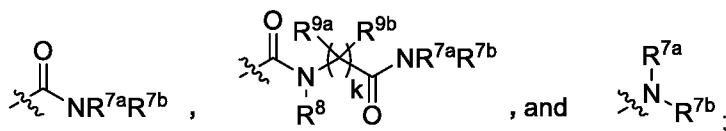
20. The method of claim 6, wherein:

X is CR^5 and Y is CR^4 -A-D.

21. The method of claim 20, wherein:

A is $-\text{C}(\text{R}^{6a}\text{R}^{6b})_j-$;

D is selected from the group consisting of



R^1 is selected from (C_6 to C_{10}) aryl and (C_2 to C_9) heteroaryl, wherein

each of the said (C_6 to C_{10}) aryl and (C_2 to C_9) heteroaryl is optionally substituted with at least one R^{13} group;

R^2 is selected from hydrogen, (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_3 to C_{10}) cycloalkyl, (C_5 to C_{10}) cycloalkenyl, (C_1 to C_{10}) alkoxy, $-(\text{CH}_2)_n\text{C}(\text{O})\text{N}(\text{R}^{11a}\text{R}^{11b})$, and $-\text{C}(\text{O})\text{R}^{12}$, wherein

each of the said (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_3 to C_{10}) cycloalkyl, (C_5 to C_{10}) cycloalkenyl, and (C_1 to C_{10}) alkoxy is optionally substituted with at least one R^{13} group;

R^3 is hydrogen,

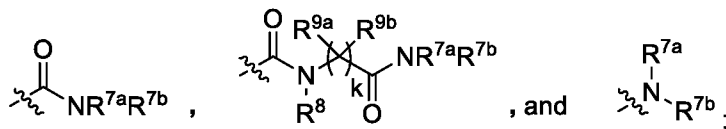
R^4 is hydrogen;

R^5 is hydrogen.

22. The method of claim 20, wherein:

A is $-\text{C}(\text{R}^{6a}\text{R}^{6b})_j-$;

D is selected from the group consisting of



R^1 is selected from hydrogen, (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_3 to C_{10}) cycloalkyl, (C_5 to C_{10}) cycloalkenyl, (C_1 to C_{10}) alkoxy, $-(\text{CH}_2)_n\text{C}(\text{O})\text{N}(\text{R}^{11a}\text{R}^{11b})$, and $-\text{C}(\text{O})\text{R}^{12}$, wherein

each of the said (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_3 to C_{10}) cycloalkyl, (C_5 to C_{10}) cycloalkenyl, and (C_1 to C_{10}) alkoxy is optionally substituted with at least one R^{13} group;

R^2 is selected from hydrogen, (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_3 to C_{10}) cycloalkyl, (C_5 to C_{10}) cycloalkenyl, (C_1 to C_{10}) alkoxy, $-(\text{CH}_2)_n\text{C}(\text{O})\text{N}(\text{R}^{11a}\text{R}^{11b})$, and $-\text{C}(\text{O})\text{R}^{12}$, wherein

each of the said (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_3 to C_{10}) cycloalkyl, (C_5 to C_{10}) cycloalkenyl, and (C_1 to C_{10}) alkoxy is optionally substituted with at least one R^{13} group;

R^3 is selected from hydrogen, (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_3 to C_{10}) cycloalkyl, and (C_5 to C_{10}) cycloalkenyl, wherein

each of the said (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_3 to C_{10}) cycloalkyl, (C_5 to C_{10}) cycloalkenyl is optionally substituted with at least one R^{13} group.

R^4 is selected from (C_6 to C_{10}) aryl and (C_2 to C_9) heteroaryl, wherein

each of the said (C_6 to C_{10}) aryl and (C_2 to C_9) heteroaryl is optionally substituted with at least one R^{13} group;

R^5 is hydrogen.

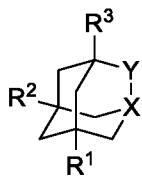
23. The method of claim 22, wherein:

R^1 is hydrogen;

R^2 is hydrogen;

5 R^3 is hydrogen.

24. A method of treating infections associated with viruses of the *Filoviridae* enveloped virus, or any virus expressing filovirus glycoproteins to mediate cell entry comprising administration of a therapeutically effective amount of a compound of Structural Formula I



I

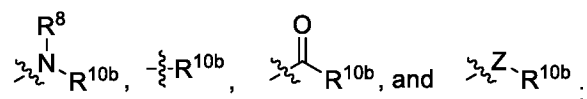
10 or a pharmaceutically acceptable salt, and a pharmaceutically acceptable carrier, diluent, or vehicle thereof, wherein:

X is C-A-D, and Y is a bond or CR^4R^5 ;

A is (C_6 to C_{10}) arylene or (C_2 to C_9) heteroarylene, wherein

each of the said (C_6 to C_{10}) arylene or (C_2 to C_9) heteroarylene is optionally substituted with at least one R^{6a} group;

D is selected from the group consisting of



R^1 is selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{11a}R^{11b}$, (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_1 to C_{10}) alkoxy, aryloxy, cyano, (C_3 to C_{10}) cycloalkyl, (C_5 to C_{10}) cyclo-alkenyl, (C_2 to C_9) cycloheteroalkyl, (C_6 to C_{10}) aryl, (C_2 to C_9) heteroaryl, -
20 $C(O)R^{12}$, $-C(O)NR^{11a}R^{11b}$, $S(O)_mR^{12}$, $-S(O)_mNR^{11a}R^{11b}$, $-NR^{11a}S(O)_mR^{12}$, $-(CH_2)_nC(O)OR^{12}$, -
 $(CH_2)_nCO)N(R^{11a}R^{11b})$, $-(CH_2)_nN(R^{11a}R^{11b})$, $-OC(O)R^{12}$, $-NR^{11a}C(O)R^{12}$, and -
 $NR^{11a}C(O)N(R^{11a}R^{11b})$, wherein

each of the said (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_1 to C_{10}) alkoxy, aryloxy, (C_3 to C_{10}) cycloalkyl, (C_5 to C_{10}) cycloalkenyl, (C_2 to C_9) cycloheteroalkyl, (C_6 to C_{10}) aryl, and (C_2 to C_9) heteroaryl is optionally substituted with at least one R^{13} group;

R^2 is selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{11a}R^{11b}$, (C_1 to C_{10}) alkyl, (C_1 to C_{10}) alkenyl, (C_1 to C_{10}) alkynyl, (C_1 to C_{10}) alkoxy, aryloxy, cyano, (C_3 to C_{10}) cycloalkyl, (C_5 to C_{10}) cyclo-alkenyl, (C_2 to C_9) cycloheteroalkyl, (C_6 to C_{10}) aryl, (C_2 to C_9) heteroaryl, -
30 $C(O)R^{12}$, $-C(O)NR^{11a}R^{11b}$, $-S(O)_mR^{12}$, $-S(O)_mNR^{11a}R^{11b}$, $-NR^{11a}S(O)_mR^{12}$, $-(CH_2)_nC(O)OR^{12}$, -
 $(CH_2)_nCO)N(R^{11a}R^{11b})$, $-(CH_2)_nN(R^{11a}R^{11b})$, $-OC(O)R^{12}$, $-NR^{11a}C(O)R^{12}$, and -
 $NR^{11a}C(O)N(R^{11a}R^{11b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R³ is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R⁴ is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R⁵ is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each of the R^{6a} and R^{6b} is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each of the R^{7a} and R^{7b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, $NR^{11a}R^{11b}$, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R^{13} group,

or R^{7a} and R^{7b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) membered cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) membered cycloheteroalkyl ring is optionally substituted with at least one R^{13} group;

each R^8 is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R^{13} group;

each of the R^{9a} , R^{9b} , and R^{9c} is independently selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{11a}R^{11b}$, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, $-C(O)R^{12}$, $-C(O)NR^{11a}R^{11b}$, $-S(O)_mR^{12}$, $-S(O)_mNR^{11a}R^{11b}$, $-NR^{11a}S(O)_mR^{12}$, $-(CH_2)_nC(O)OR^{12}$, $-(CH_2)_nC(O)N(R^{11a}R^{11b})$, $-(CH_2)_nN(R^{11a}R^{11b})$, $-OC(O)R^{12}$, $-NR^{11a}C(O)R^{12}$, and $-NR^{11a}C(O)N(R^{11a}R^{11b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R^{13} group;

each of the R^{10a} and R^{10b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl is optionally substituted with at least one R^{13} group;

each of the R^{11a} and R^{11b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, wherein

cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹³ group,

or R^{11a} and R^{11b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group c consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R¹³ group;

each of the R¹² is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each R¹³ is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{14a}R^{14b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R¹⁵, -C(O)NR^{14a}R^{14b}, -S(O)_mR¹⁵, -S(O)_mNR^{14a}R^{14b}, -NR^{14a}S(O)_mR¹⁵, -(CH₂)_nC(O)OR¹⁵, -(CH₂)_nC(O)N(R^{14a}R^{14b}), -(CH₂)_nN(R^{14a}R^{14b}), -OC(O)R¹⁵, -O(CH₂)_nO-, -NR^{14a}C(O)R¹⁵, and -NR^{14a}C(O)N(R^{14a}R^{14b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R¹⁶ group;

each of the R^{14a} and R^{14b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹⁶ group,

or R^{14a} and R^{14b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R¹⁶ group;
 each R¹⁵ is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹⁶ group;

each R¹⁶ is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{17a}R^{17b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R¹⁸, -C(O)NR^{17a}R^{17b}, -S(O)_mR¹⁸, -S(O)_mNR^{17a}R^{17b}, -NR^{17a}S(O)_mR¹⁸, -(CH₂)_nC(O)OR¹⁸, -(CH₂)_nC(O)N(R^{17a}R^{17b}), -(CH₂)_nN(R^{17a}R^{17b}), -OC(O)R¹⁸, -NR^{17a}C(O)R¹⁸, and -NR^{17a}C(O)N(R^{17a}R^{17b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) aryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R¹⁹ group;

each of the R^{17a} and R^{17b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹⁹ group,

or R^{17a} and R^{17b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R¹⁹ group;

each R¹⁸ is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl,

wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, and (C₆ to C₁₀) aryl is optionally substituted with at least one R¹⁹ group;

each R¹⁹ is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{20a}R^{20b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to

C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R²¹, -C(O)NR^{20a}R^{20b}, -S(O)_mR²¹, -S(O)_mNR^{20a}R^{20b}, -NR^{20a}S(O)_mR²¹, -(CH₂)_nC(O)OR²¹, -(CH₂)_nC(O)N(R^{20a}R^{20b}), -(CH₂)_nN(R^{20a}R^{20b}), -OC(O)R²¹, -NR^{20a}C(O)R²¹, and -NR^{20a}C(O)N(R^{20a}R^{20b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R²² group;

each of the R^{20a} and R^{20b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R²² group,

or R^{20a} and R^{20b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R²² group;

each R²¹ is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl;

each R²² is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{23a}R^{23b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R²⁴, -C(O)NR^{23a}R^{23b}, -S(O)_mR²⁴, -S(O)_mNR^{23a}R^{23b}, -NR^{23a}S(O)_mR²⁴, -(CH₂)_nC(O)OR²⁴, -(CH₂)_nC(O)N(R^{23a}R^{23b}), -(CH₂)_nN(R^{23a}R^{23b}), -OC(O)R²⁴, -NR^{23a}C(O)R²⁴, and -NR^{23a}C(O)N(R^{23a}R^{23b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R²⁵ group;

each of the R^{23a} and R^{23b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, and (C₆ to C₁₀) aryl;

each R²⁴ is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl;

each R^{25} is independently selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{26a}R^{26b}$, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, $-C(O)R^{27}$, $-C(O)NR^{26a}R^{26b}$, $-S(O)_mR^{27}$, $-S(O)_mNR^{26a}R^{26b}$, $-NR^{26a}S(O)_mR^{27}$, $-(CH_2)_nC(O)OR^{27}$, $-(CH_2)_nC(O)N(R^{26a}R^{26b})$, $-(CH_2)_nN(R^{26a}R^{26b})$, $-OC(O)R^{27}$, $-NR^{26a}C(O)R^{27}$, and $-NR^{26a}C(O)N(R^{26a}R^{26b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R^{27} group;

each of the R^{26a} and R^{26b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl,

or R^{26a} and R^{26b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S;

each R^{27} is independently selected from hydrogen, halogen, OH, nitro, CF_3 , (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl;

h is 1 or 2;

i is 2, 3, 4, 5, or 6;

j is 0, 1, 2, 3, 4, or 5;

k is 1, 2, 3, 4, or 5;

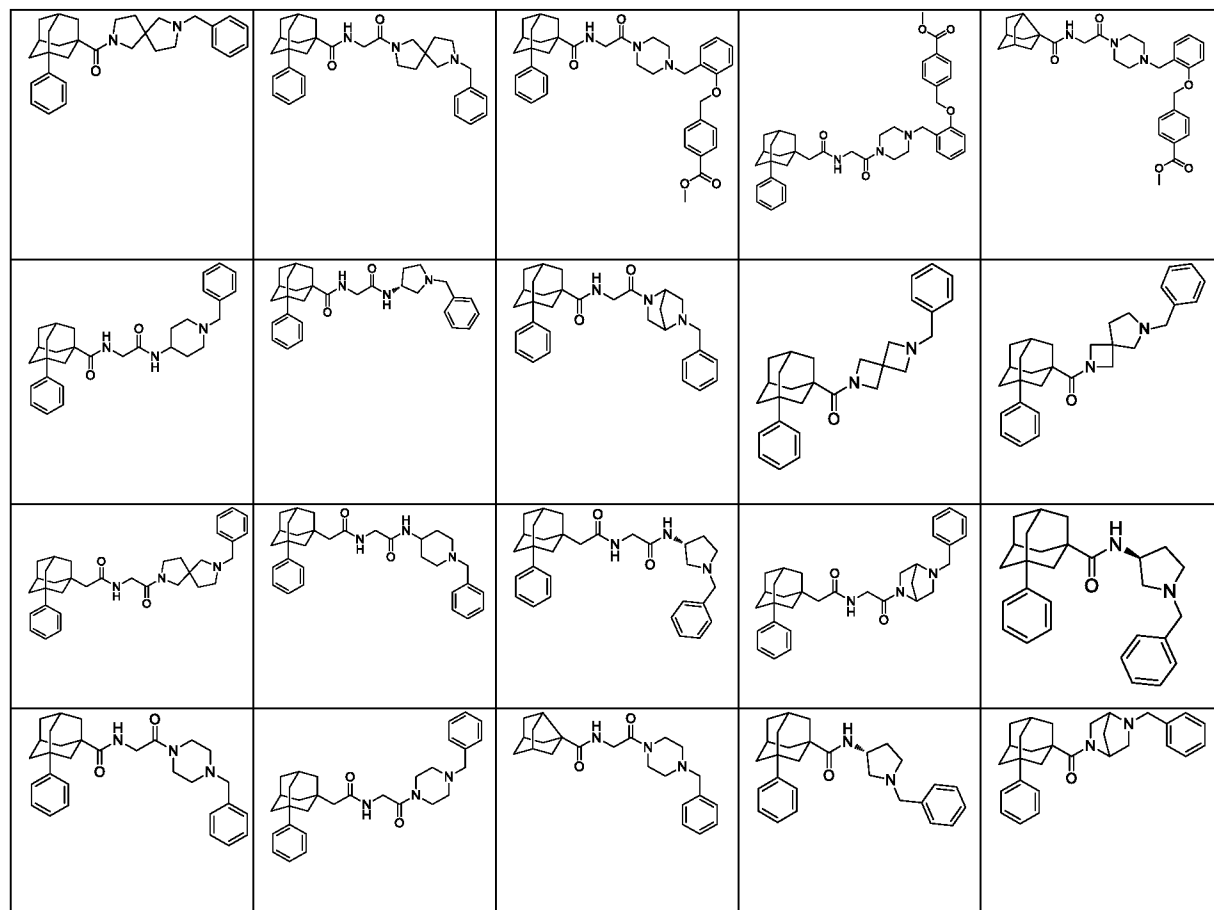
m is 0, 1 or 2;

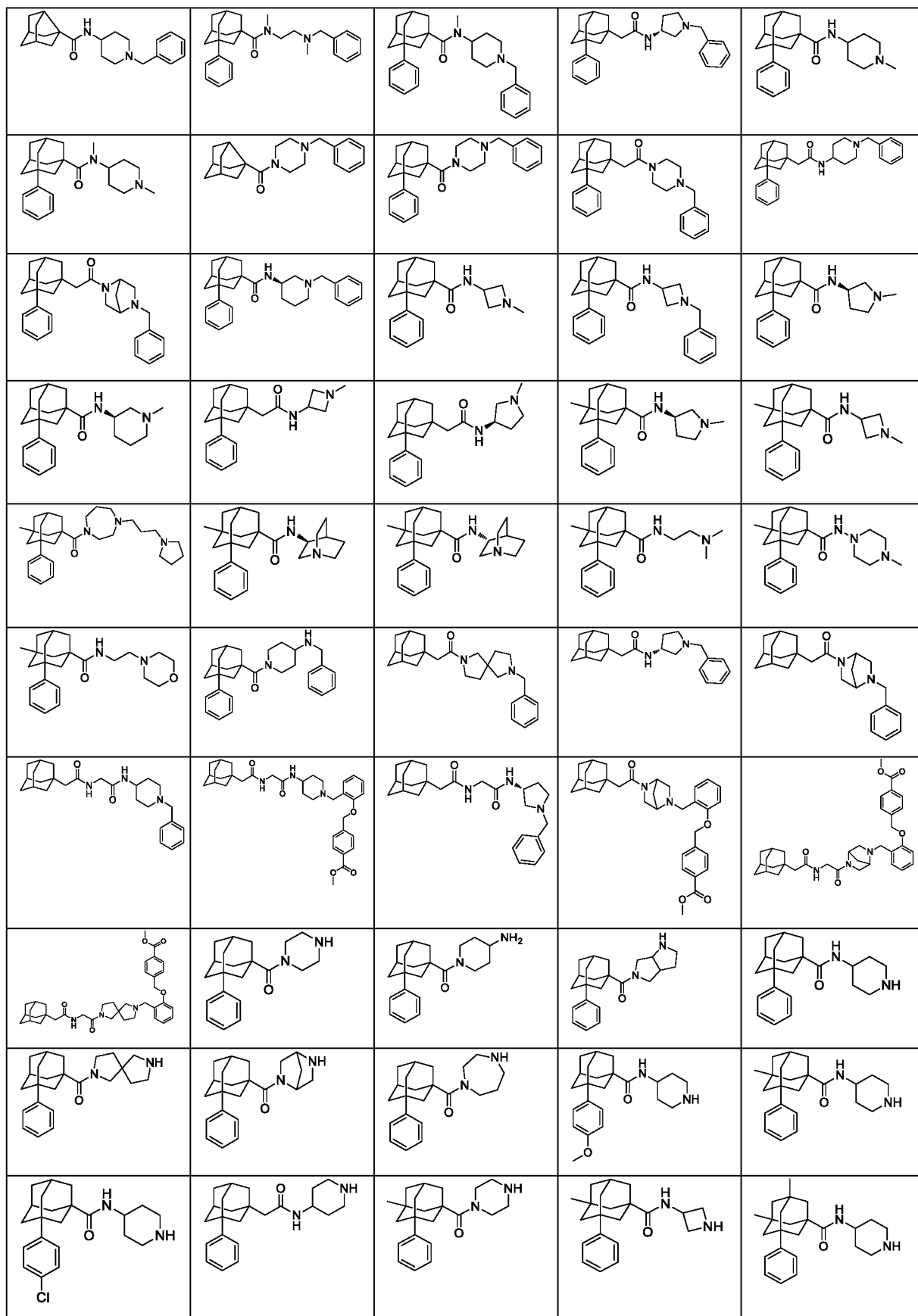
n is 0, 1, 2, 3, or 4;

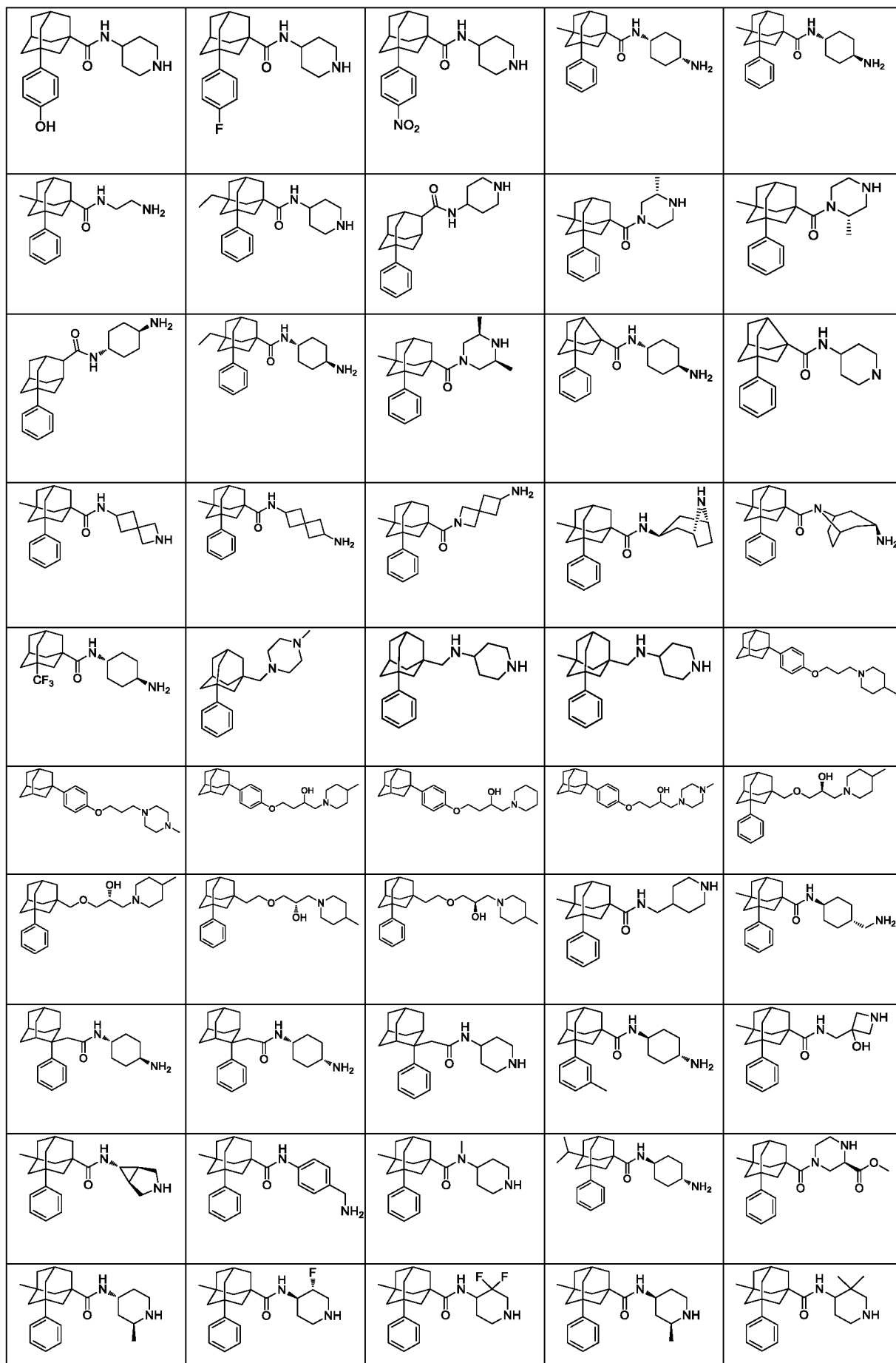
Z is selected from the group consisting of -O-, -S-, -S(O)-, and -S(O)₂-.

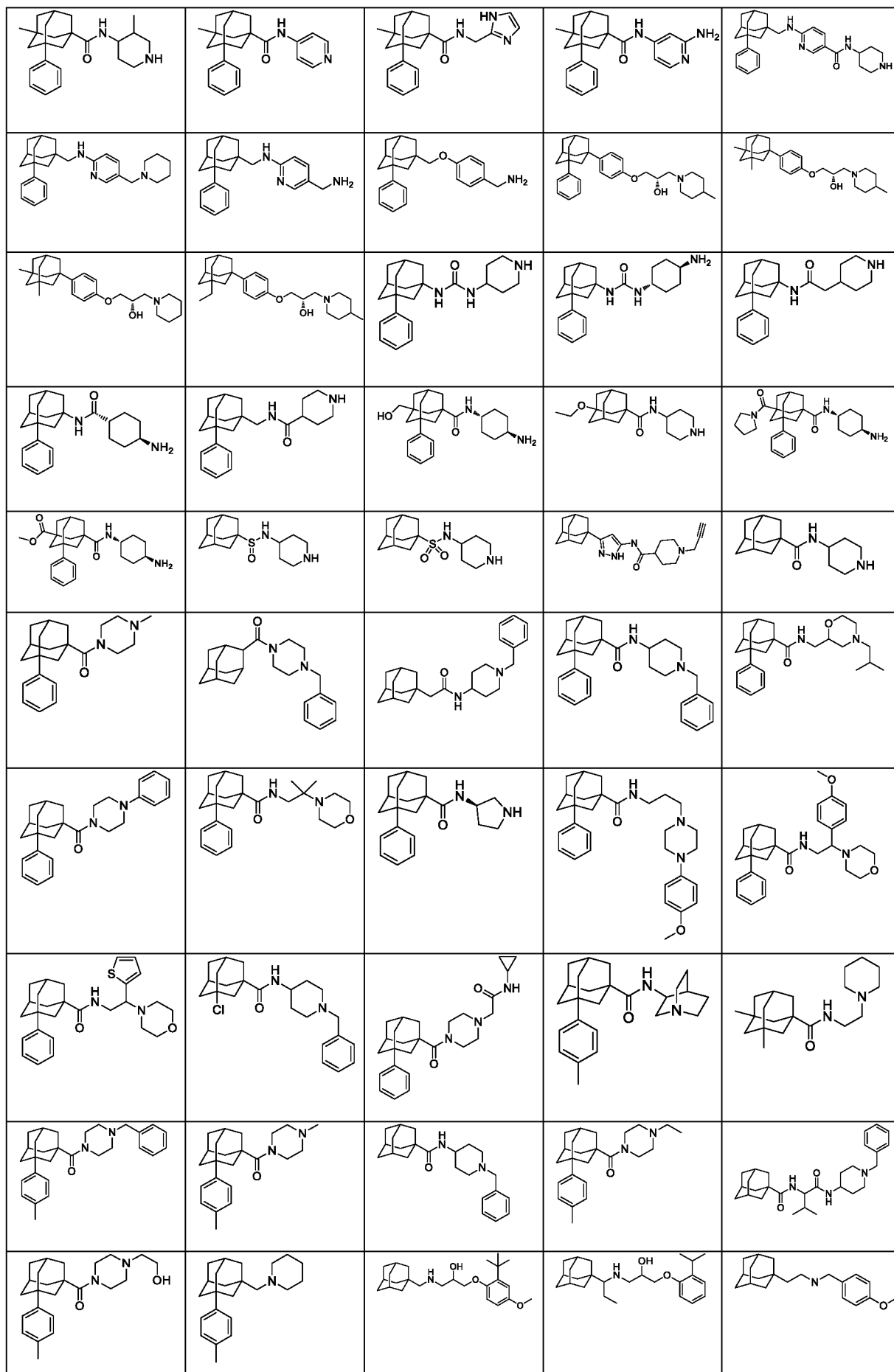
25. The method of claim 24, wherein:

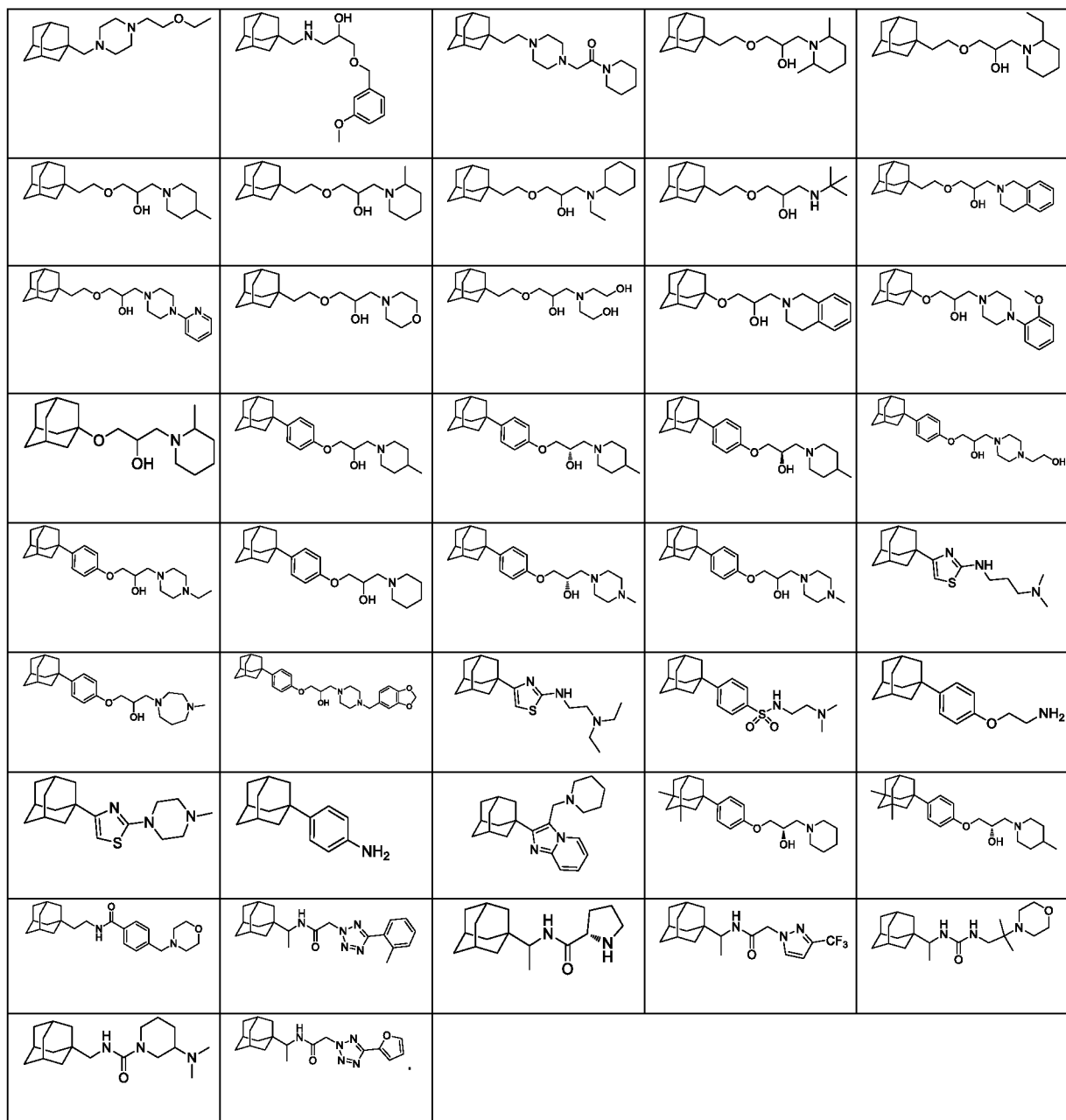
R^{10b} is selected from the group consisting of



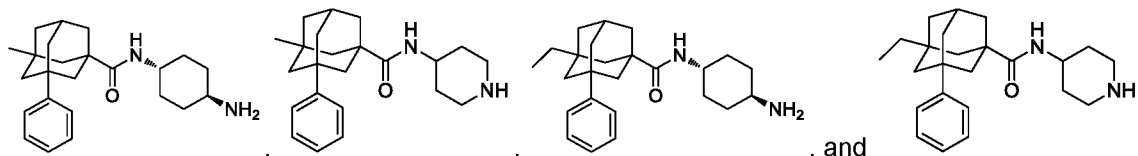








29. The method of claim 28, wherein the compound is selected from the group consisting of:

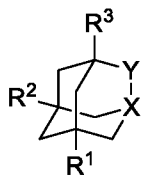


30. The method of claim 28, wherein the infection is associated with filovirus selected from the group consisting of Ebola virus and Marburg virus.

31. The method of claim 30, wherein the filovirus is Ebola virus.

32. The method of claim 31, including administering a therapeutic amount of a therapeutic agent selected from the group consisting of Ribavirin, viral RNA-dependent-RNA-polymerase inhibitors, Favipiravir, Triazavirin, GS-5734, small interfering RNAs (siRNAs) and microRNAs, vaccines, and immunomodulators.

33. The method of claim 29, wherein the infection is associated with filovirus selected from the group consisting of Ebolavirus and Marburgvirus.
34. The method of claim 33, wherein the filovirus is Ebolavirus.
35. The method of claim 34, including administering a therapeutic amount of a therapeutic agent
 5 selected from the group consisting of Ribavirin, viral RNA-dependent-RNA-polymerase inhibitors, Favipiravir, Triazavirin, GS-5734, small interfering RNAs (siRNAs) and microRNAs, vaccines, and immunomodulators.
36. A compound represented by Structural Formula I



I

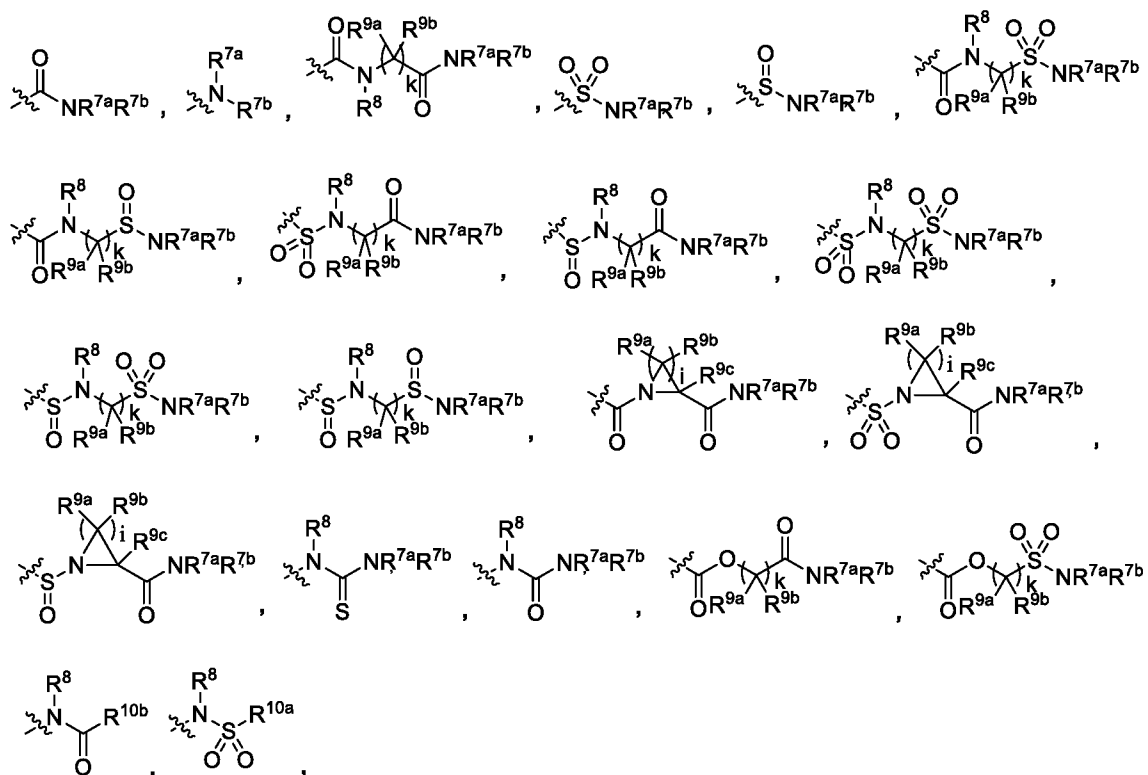
10 or a pharmaceutically acceptable salt, and a pharmaceutically acceptable carrier, diluent, or vehicle thereof, wherein:

X is C-A-D, and Y is a bond or CR⁴R⁵; or

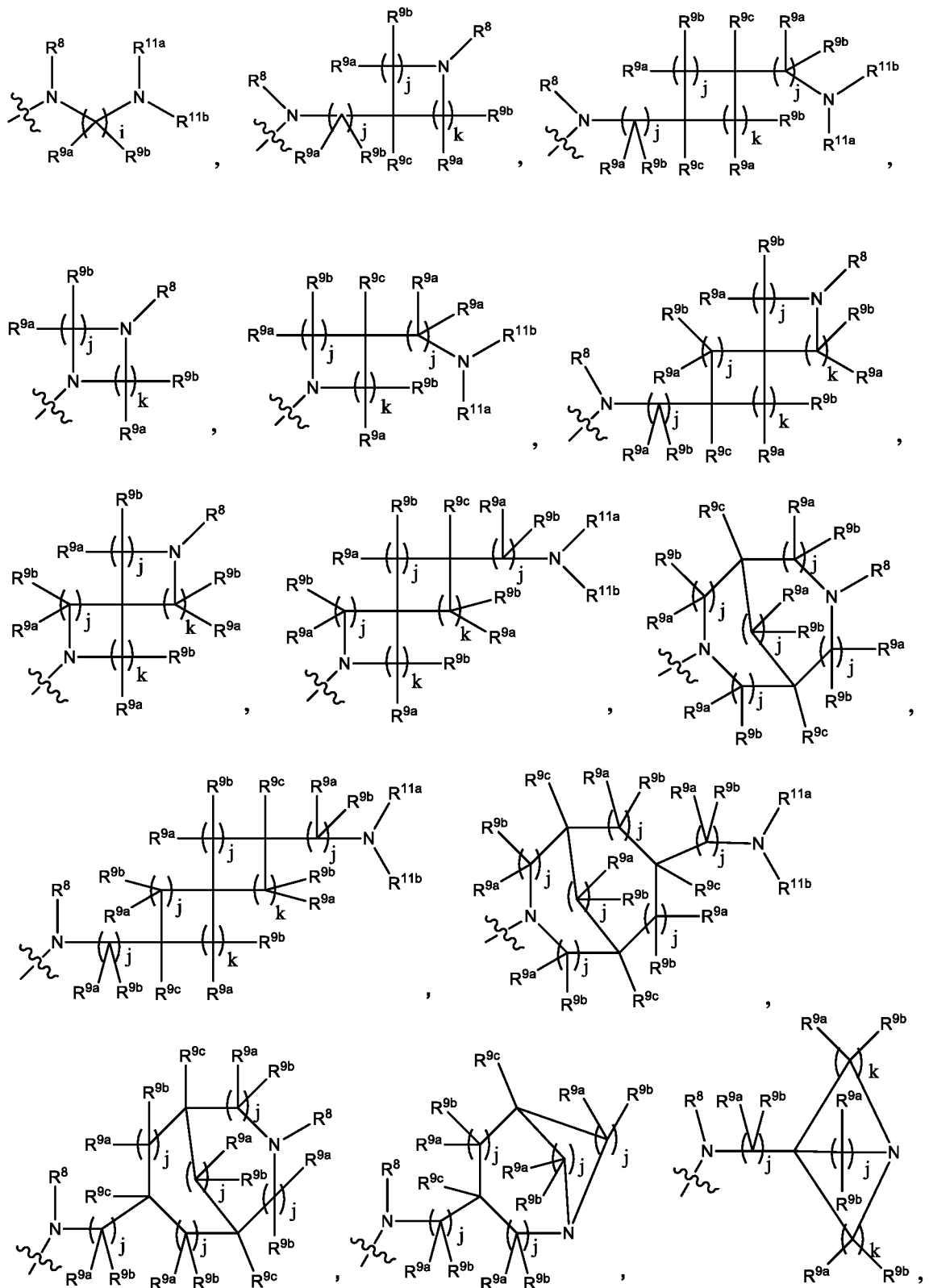
X is CR⁵ and Y is CR⁴-A-D;

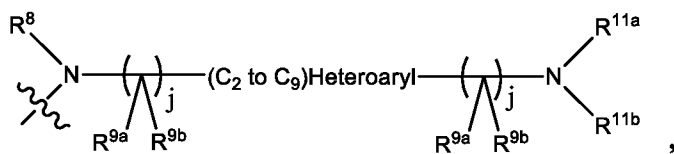
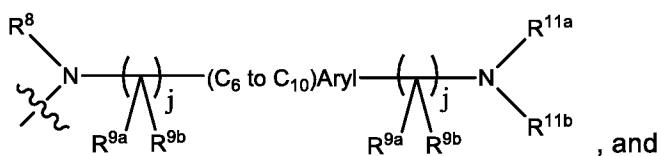
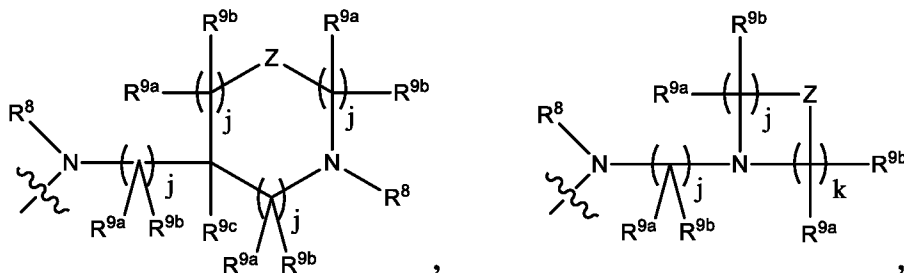
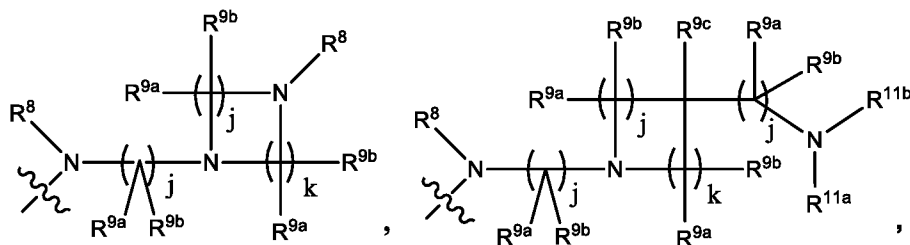
A is -C(R^{6a}R^{6b})_j;

15 D is selected from the group consisting of

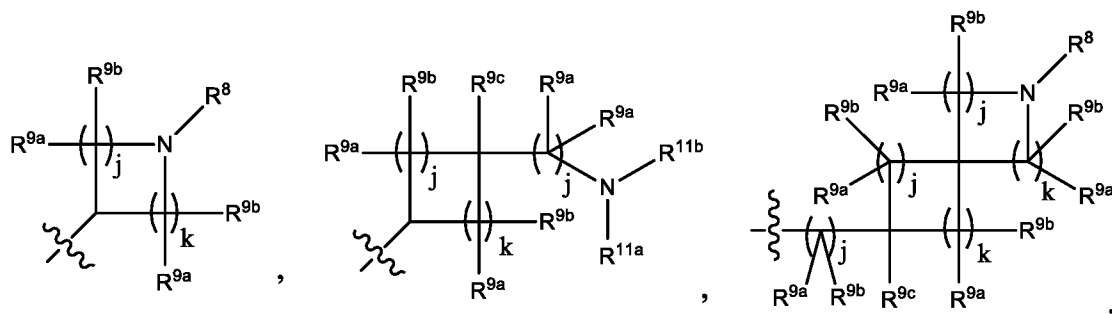
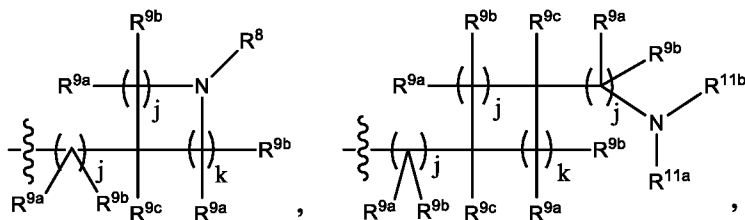


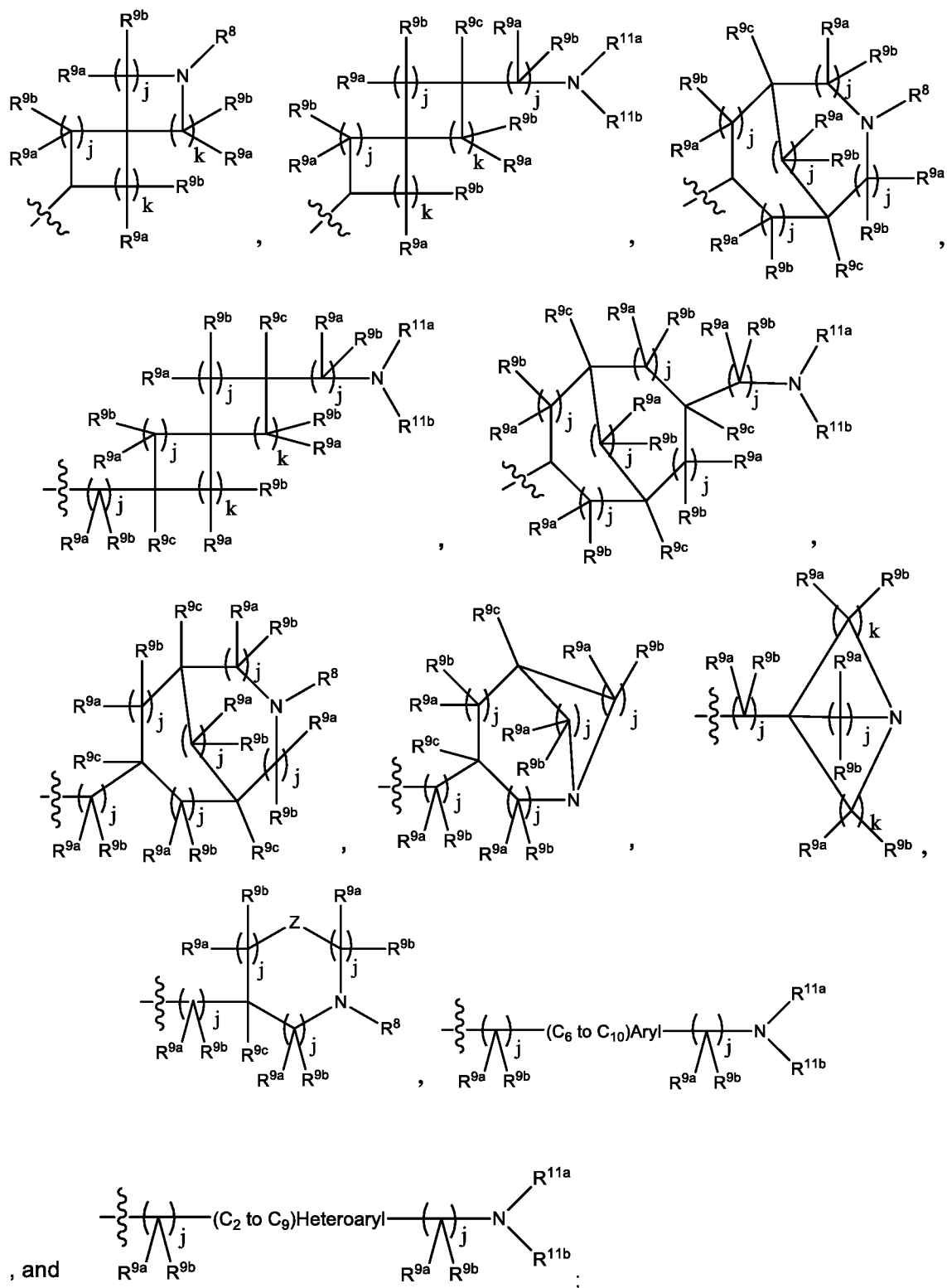
wherein NR^{7a}R^{7b} is selected from the group consisting of





and wherein R^{10a} is selected from the group consisting of

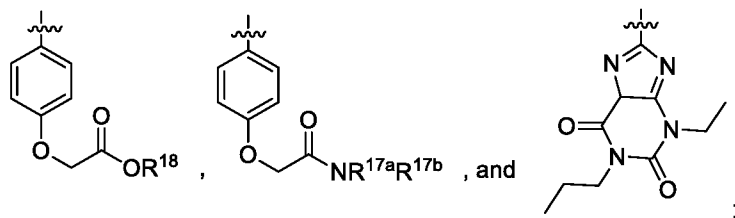




R^1 is selected from (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R^{13}

with the proviso that R^1 is not selected from the group consisting of



R^2 is selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{11a}R^{11b}$, $(C_1$ to $C_{10})$ alkyl, $(C_1$ to $C_{10})$ alkenyl, $(C_1$ to $C_{10})$ alkynyl, $(C_1$ to $C_{10})$ alkoxy, aryloxy, cyano, $(C_3$ to $C_{10})$ cycloalkyl, $(C_5$ to $C_{10})$ cycloalkenyl, $(C_2$ to $C_9)$ cycloheteroalkyl, $(C_6$ to $C_{10})$ aryl, $(C_2$ to $C_9)$ heteroaryl, -
 5 $C(O)R^{12}$, $-C(O)NR^{11a}R^{11b}$, $-S(O)_mR^{12}$, $-S(O)_mNR^{11a}R^{11b}$, $-NR^{11a}S(O)_mR^{12}$, $-(CH_2)_nC(O)OR^{12}$, -
 $(CH_2)_nC(O)N(R^{11a}R^{11b})$, $-(CH_2)_nN(R^{11a}R^{11b})$, $-OC(O)R^{12}$, $-NR^{11a}C(O)R^{12}$, and -
 $NR^{11a}C(O)N(R^{11a}R^{11b})$, wherein

each of the said $(C_1$ to $C_{10})$ alkyl, $(C_1$ to $C_{10})$ alkenyl, $(C_1$ to $C_{10})$ alkynyl, $(C_1$ to $C_{10})$ alkoxy, aryloxy, $(C_3$ to $C_{10})$ cycloalkyl, $(C_5$ to $C_{10})$ cycloalkenyl, $(C_2$ to $C_9)$ cycloheteroalkyl, $(C_6$ to $C_{10})$ aryl, and $(C_2$ to $C_9)$ heteroaryl is optionally substituted with at least one R^{13} group;

R^3 is selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{11a}R^{11b}$, $(C_1$ to $C_{10})$ alkyl, $(C_1$ to $C_{10})$ alkenyl, $(C_1$ to $C_{10})$ alkynyl, $(C_1$ to $C_{10})$ alkoxy, aryloxy, cyano, $(C_3$ to $C_{10})$ cycloalkyl, $(C_5$ to $C_{10})$ cycloalkenyl, $(C_2$ to $C_9)$ cycloheteroalkyl, $(C_6$ to $C_{10})$ aryl, $(C_2$ to $C_9)$ heteroaryl, -
 10 $C(O)R^{12}$, $-C(O)NR^{11a}R^{11b}$, $-S(O)_mR^{12}$, $-S(O)_mNR^{11a}R^{11b}$, $-NR^{11a}S(O)_mR^{12}$, $-(CH_2)_nC(O)OR^{12}$, -
 15 $(CH_2)_nC(O)N(R^{11a}R^{11b})$, $-(CH_2)_nN(R^{11a}R^{11b})$, $-OC(O)R^{12}$, $-NR^{11a}C(O)R^{12}$, and -
 $NR^{11a}C(O)N(R^{11a}R^{11b})$, wherein

each of the said $(C_1$ to $C_{10})$ alkyl, $(C_1$ to $C_{10})$ alkenyl, $(C_1$ to $C_{10})$ alkynyl, $(C_1$ to $C_{10})$ alkoxy, aryloxy, $(C_3$ to $C_{10})$ cycloalkyl, $(C_5$ to $C_{10})$ cycloalkenyl, $(C_2$ to $C_9)$ cycloheteroalkyl, $(C_6$ to $C_{10})$ aryl, and $(C_2$ to $C_9)$ heteroaryl is optionally substituted with at least one R^{13} group;

R^4 is selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{11a}R^{11b}$, $(C_1$ to $C_{10})$ alkyl, $(C_1$ to $C_{10})$ alkenyl, $(C_1$ to $C_{10})$ alkynyl, $(C_1$ to $C_{10})$ alkoxy, aryloxy, cyano, $(C_3$ to $C_{10})$ cycloalkyl, $(C_5$ to $C_{10})$ cycloalkenyl, $(C_2$ to $C_9)$ cycloheteroalkyl, $(C_6$ to $C_{10})$ aryl, $(C_2$ to $C_9)$ heteroaryl, -
 20 $C(O)R^{12}$, $-C(O)NR^{11a}R^{11b}$, $-S(O)_mR^{12}$, $-S(O)_mNR^{11a}R^{11b}$, $-NR^{11a}S(O)_mR^{12}$, $-(CH_2)_nC(O)OR^{12}$, -
 $(CH_2)_nC(O)N(R^{11a}R^{11b})$, $-(CH_2)_nN(R^{11a}R^{11b})$, $-OC(O)R^{12}$, $-NR^{11a}C(O)R^{12}$, and -
 25 $NR^{11a}C(O)N(R^{11a}R^{11b})$, wherein

each of the said $(C_1$ to $C_{10})$ alkyl, $(C_1$ to $C_{10})$ alkenyl, $(C_1$ to $C_{10})$ alkynyl, $(C_1$ to $C_{10})$ alkoxy, aryloxy, $(C_3$ to $C_{10})$ cycloalkyl, $(C_5$ to $C_{10})$ cycloalkenyl, $(C_2$ to $C_9)$ cycloheteroalkyl, $(C_6$ to $C_{10})$ aryl, and $(C_2$ to $C_9)$ heteroaryl is optionally substituted with at least one R^{13} group;

R^5 is selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{11a}R^{11b}$, $(C_1$ to $C_{10})$ alkyl, $(C_1$ to $C_{10})$ alkenyl, $(C_1$ to $C_{10})$ alkynyl, $(C_1$ to $C_{10})$ alkoxy, aryloxy, cyano, $(C_3$ to $C_{10})$ cycloalkyl, $(C_5$ to $C_{10})$ cycloalkenyl, $(C_2$ to $C_9)$ cycloheteroalkyl, $(C_6$ to $C_{10})$ aryl, $(C_2$ to $C_9)$ heteroaryl, -
 30 $C(O)R^{12}$, $-C(O)NR^{11a}R^{11b}$, $-S(O)_mR^{12}$, $-S(O)_mNR^{11a}R^{11b}$, $-NR^{11a}S(O)_mR^{12}$, $-(CH_2)_nC(O)OR^{12}$, -
 $(CH_2)_nC(O)N(R^{11a}R^{11b})$, $-(CH_2)_nN(R^{11a}R^{11b})$, $-OC(O)R^{12}$, $-NR^{11a}C(O)R^{12}$, and -
 $NR^{11a}C(O)N(R^{11a}R^{11b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each of the R^{6a} and R^{6b} is independently selected from hydrogen, halogen, OH, nitro, CF₃,
 5 -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², - (CH₂)_nC(O)OR¹², - (CH₂)_nC(O)N(R^{11a}R^{11b}), - (CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², - NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

10 each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each R⁸ is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉)
 15 cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted
 20 with at least one R¹³ group;

each of the R^{9a}, R^{9b}, and R^{9c} is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -
 25 (CH₂)_nC(O)OR¹², - (CH₂)_nC(O)N(R^{11a}R^{11b}), - (CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

30 each of the R^{11a} and R^{11b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted
 35 with at least one R¹³ group,

or R^{11a} and R^{11b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R¹³ group;

each of the R¹² is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each R¹³ is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{14a}R^{14b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R¹⁵, -C(O)NR^{14a}R^{14b}, -S(O)_mR¹⁵, -S(O)_mNR^{14a}R^{14b}, -NR^{14a}S(O)_mR¹⁵, -(CH₂)_nC(O)OR¹⁵, -(CH₂)_nC(O)N(R^{14a}R^{14b}), -(CH₂)_nN(R^{14a}R^{14b}), -OC(O)R¹⁵, -O(CH₂)_nO-, -NR^{14a}C(O)R¹⁵, and -NR^{14a}C(O)N(R^{14a}R^{14b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R¹⁶ group;

each of the R^{14a} and R^{14b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹⁶ group,

or R^{14a} and R^{14b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R¹⁶ group;

each R¹⁵ is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹⁶ group;

each R^{16} is independently selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{17a}R^{17b}$, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, $-C(O)R^{18}$, $-C(O)NR^{17a}R^{17b}$, $-S(O)_mR^{18}$, $-S(O)_mNR^{17a}R^{17b}$, $-NR^{17a}S(O)_mR^{18}$, $-(CH_2)_nC(O)OR^{18}$, $-(CH_2)_nC(O)N(R^{17a}R^{17b})$, $-(CH_2)_nN(R^{17a}R^{17b})$, $-OC(O)R^{18}$, $-NR^{17a}C(O)R^{18}$, and $-NR^{17a}C(O)N(R^{17a}R^{17b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) aryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R^{19} group;

each of the R^{17a} and R^{17b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R^{19} group,

or R^{17a} and R^{17b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R^{19} group;

each R^{18} is independently selected from hydrogen, halogen, OH, nitro, CF_3 , (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, and (C₆ to C₁₀) aryl is optionally substituted with at least one R^{19} group;

each R^{19} is independently selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{20a}R^{20b}$, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, $-C(O)R^{21}$, $-C(O)NR^{20a}R^{20b}$, $-S(O)_mR^{21}$, $-S(O)_mNR^{20a}R^{20b}$, $-NR^{20a}S(O)_mR^{21}$, $-(CH_2)_nC(O)OR^{21}$, $-(CH_2)_nC(O)N(R^{20a}R^{20b})$, $-(CH_2)_nN(R^{20a}R^{20b})$, $-OC(O)R^{21}$, $-NR^{20a}C(O)R^{21}$, and $-NR^{20a}C(O)N(R^{20a}R^{20b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl,

(C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R²² group;

each of the R^{20a} and R^{20b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R²² group,

or R^{20a} and R^{20b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R²² group;

each R²¹ is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl;

each R²² is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{23a}R^{23b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R²⁴, -C(O)NR^{23a}R^{23b}, -S(O)_mR²⁴, -S(O)_mNR^{23a}R^{23b}, -NR^{23a}S(O)_mR²⁴, -(CH₂)_nC(O)OR²⁴, -(CH₂)_nC(O)N(R^{23a}R^{23b}), -(CH₂)_nN(R^{23a}R^{23b}), -OC(O)R²⁴, -NR^{23a}C(O)R²⁴, and -NR^{23a}C(O)N(R^{23a}R^{23b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R²⁵ group;

each of the R^{23a} and R^{23b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, and (C₆ to C₁₀) aryl;

each R²⁴ is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl;

each R²⁵ is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{26a}R^{26b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R²⁷, -C(O)NR^{26a}R^{26b}, -S(O)_mR²⁷, -S(O)_mNR^{26a}R^{26b}, -NR^{26a}S(O)_mR²⁷, -(CH₂)_nC(O)OR²⁷, -(CH₂)_nC(O)N(R^{26a}R^{26b}), -(CH₂)_nN(R^{26a}R^{26b}), -OC(O)R²⁷, -NR^{26a}C(O)R²⁷, and -NR^{26a}C(O)N(R^{26a}R^{26b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R²⁷ group;

each of the R^{26a} and R^{26b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl,

or R^{26a} and R^{26b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S;

each R²⁷ is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl;

h is 1 or 2;

i is 2, 3, 4, 5, or 6;

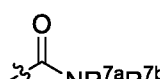
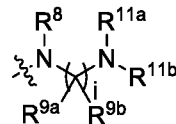
j is 0, 1, 2, 3, 4, or 5;

k is 1, 2, 3, 4, or 5;

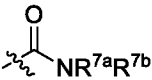
m is 0, 1 or 2;

n is 0, 1, 2, 3, or 4;

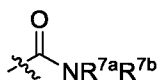
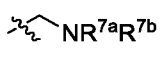
with the proviso that when R¹ is phenyl, R² is hydrogen, R³ is hydrogen, X is C-A-D, Y is CH₂,

A is a bond, and D is  NR^{7a}R^{7b}, then NR^{7a}R^{7b} is not ,

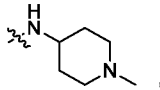
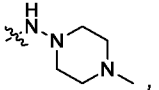
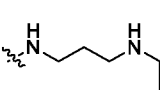
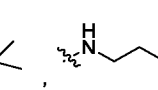
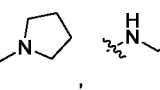
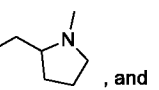
and with the proviso that when R¹ is selected from the group consisting of 4-methylphenyl, 3,4-dimethylphenyl, and 4-methoxyphenyl, R² is hydrogen, R³ is hydrogen, X is C-A-D, Y is CH₂,

A is a bond, then D is not selected from the group consisting of  NR^{7a}R^{7b},

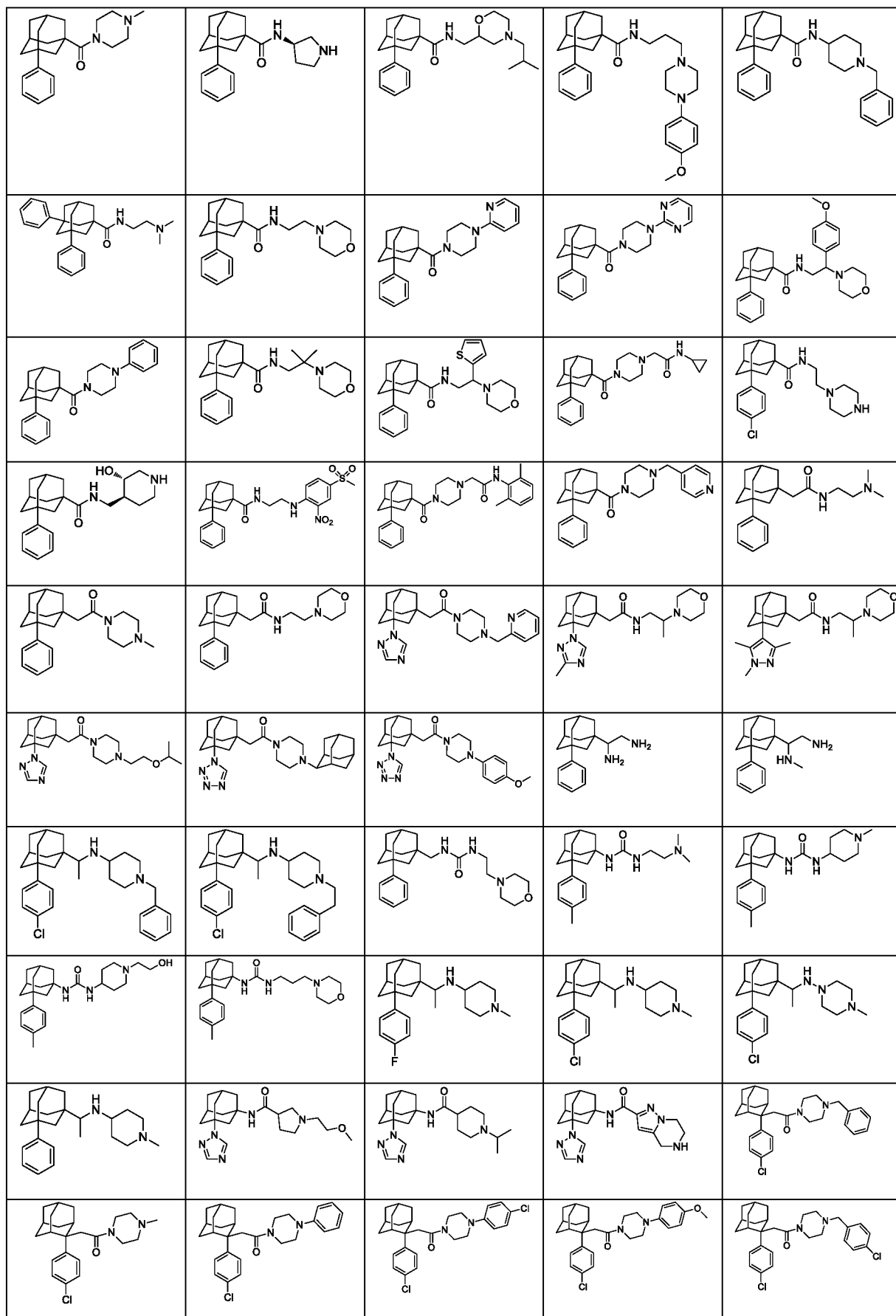
and with the proviso that when R¹ is 4-chlorophenyl, R² is hydrogen, R³ is hydrogen, X is C-A-D, Y is CH₂, A is a bond, and D is selected from the group consisting of

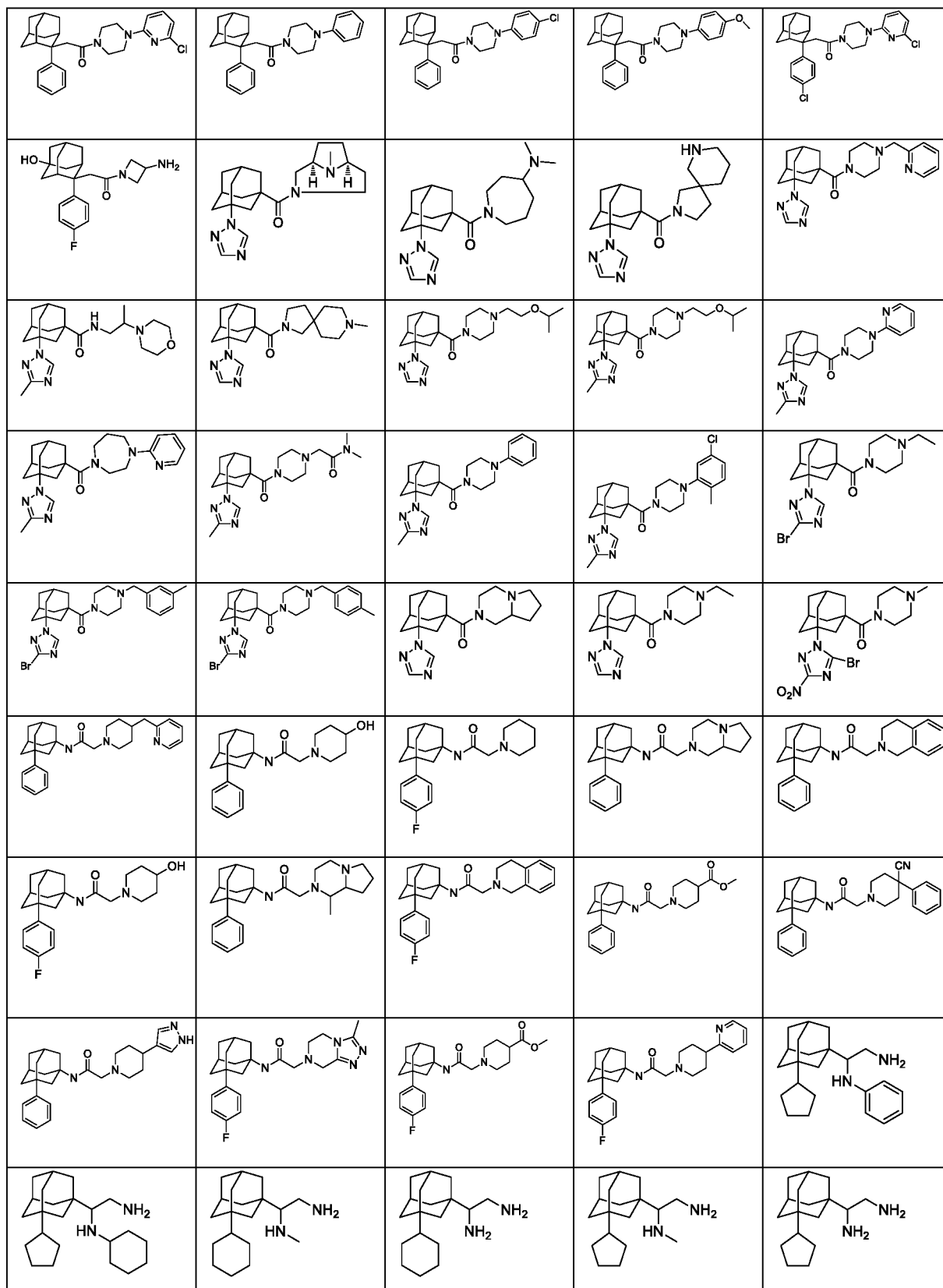
 NR^{7a}R^{7b}, and  NR^{7a}R^{7b},

then NR^{7a}R^{7b} is not selected from the group consisting of

, , , , , and ,

and with the proviso that the following compounds shall be excluded:



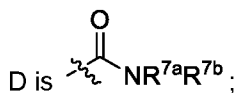


37. The compound of claim 36, wherein:

X is C-A-D and Y is CR⁴R⁵.

38. The compound of claim 37, wherein:

A is $-C(R^{6a}R^{6b})_j-$;



R^1 is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein

each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R^{13} group;

R^4 is hydrogen;

R^5 is hydrogen.

39. The compound of claim 38, wherein:

R^2 is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, $-(CH_2)_nC(O)N(R^{11a}R^{11b})$, and $-C(O)R^{12}$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R^{13} group;

R^3 is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, and (C₅ to C₁₀) cycloalkenyl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl is optionally substituted with at least one R^{13} group.

40. The compound of claim 39, wherein:

R^3 is hydrogen.

41. The compound of claim 40, wherein:

A is $-C(R^{6a}R^{6b})_j-$;



R^1 is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein

each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R^{13} group;

R^2 is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, $-(CH_2)_nC(O)N(R^{11a}R^{11b})$, and $-C(O)R^{12}$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R^{13} group;

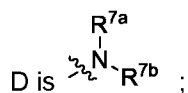
R^3 is hydrogen;

R^4 is hydrogen;

R^5 is hydrogen.

42. The compound of claim 37, wherein:

A is $-C(R^{6a}R^{6b})_j-$;



R^1 is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein

each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R^{13} group;

5 R^2 is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, $-(CH_2)_nC(O)N(R^{11a}R^{11b})$, and $-C(O)R^{12}$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R^{13} group;

10 R^3 is hydrogen;

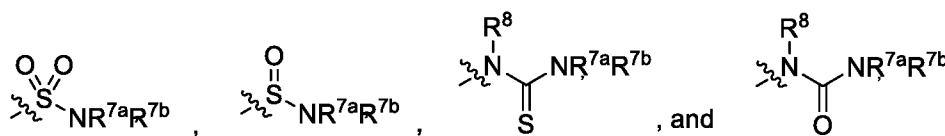
R^4 is hydrogen;

R^5 is hydrogen.

43. The compound of claim 37, wherein:

A is $-C(R^{6a}R^{6b})_2$;

15 D is selected from the group consisting of



44. The compound of claim 43, wherein:

R^1 is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein

each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R^{13} group;

20 R^2 is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, $-(CH_2)_nC(O)N(R^{11a}R^{11b})$, and $-C(O)R^{12}$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R^{13} group;

25 R^3 is hydrogen;

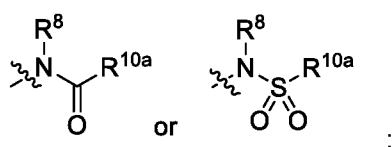
R^4 is hydrogen;

R^5 is hydrogen.

45. The compound of claim 37, wherein:

30 A is $-C(R^{6a}R^{6b})_2$;

D is selected from the group consisting of



R^1 is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein

each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R² is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, -(CH₂)_nC(O)N(R^{11a}R^{11b}), and -C(O)R¹² wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R¹³ group;

R³ is hydrogen;

R⁴ is hydrogen;

R⁵ is hydrogen.

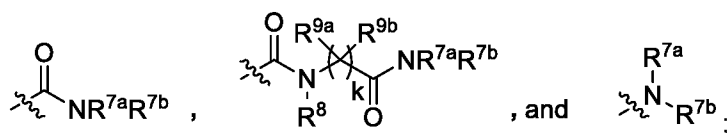
46. The compound of claim 36, wherein:

X is C-A-D and Y is a bond.

47. The compound of claim 46, wherein:

A is -C(R^{6a}R^{6b})_J;

D is selected from the group consisting of



R¹ is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein

each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group.

R² is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, -(CH₂)_nC(O)N(R^{11a}R^{11b}), and -C(O)R¹², wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R¹³ group;

R³ is hydrogen.

48. The compound of claim 36, wherein:

X is CR⁵ and Y is CR⁴-A-D.

49. The compound of claim 48, wherein:

A is -C(R^{6a}R^{6b})_J;

D is selected from the group consisting of



R¹ is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein

each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R² is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, -(CH₂)_nC(O)N(R^{11a}R^{11b}), and -C(O)R¹²,

wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R¹³ group;

R³ is hydrogen;

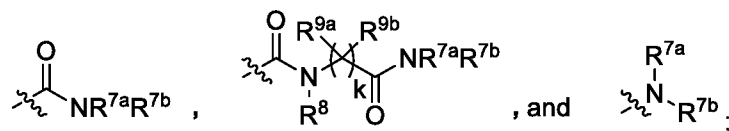
R⁴ is hydrogen;

R⁵ is hydrogen.

50. The compound of claim 48, wherein:

A is -C(R^{6a}R^{6b})_j-;

D is selected from the group consisting of



R¹ is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, -(CH₂)_nC(O)N(R^{11a}R^{11b}), and -C(O)R¹², wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R¹³ group;

R² is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₁ to C₁₀) alkoxy, -(CH₂)_nC(O)N(R^{11a}R^{11b}), and -C(O)R¹², wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, and (C₁ to C₁₀) alkoxy is optionally substituted with at least one R¹³ group;

R³ is selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, and (C₅ to C₁₀) cycloalkenyl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl is optionally substituted with at least one R¹³ group;

R⁴ is selected from (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl, wherein

each of the said (C₆ to C₁₀) aryl and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R⁵ is hydrogen.

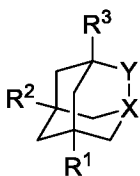
51. The compound of claim 50, wherein:

R¹ is hydrogen;

R² is hydrogen;

R³ is hydrogen.

52. A compound represented by Structural Formula I



1

or a pharmaceutically acceptable salt, and a pharmaceutically acceptable carrier, diluent, or vehicle thereof, wherein:

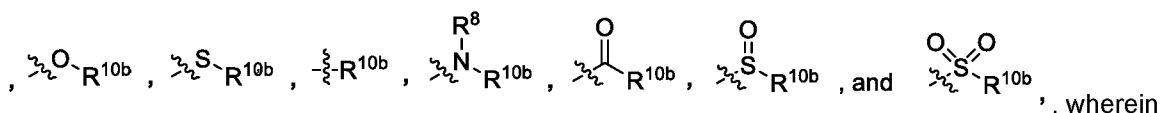
X is C-A-D, and Y is a bond or CR⁴R⁵; or

X is CR^5 and Y is CR^4 -A-D:

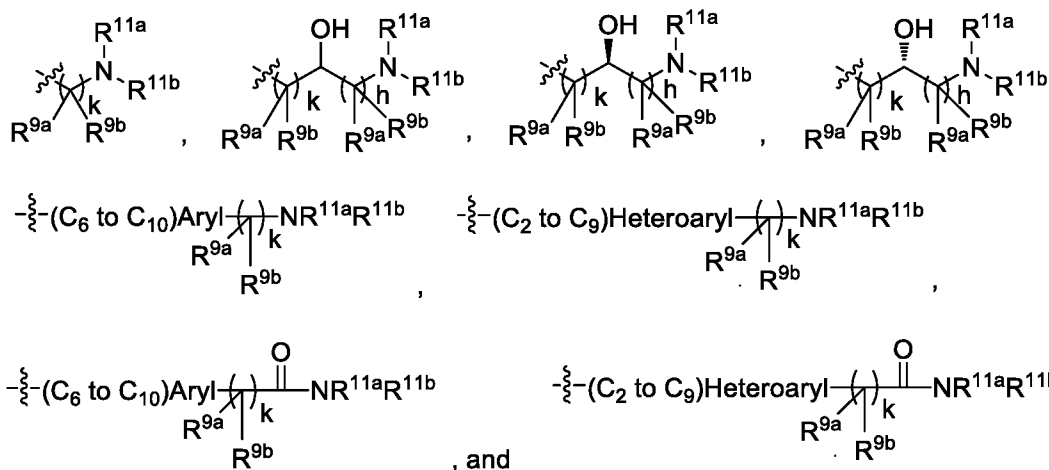
A is (C₆ to C₁₀) arylene or (C₂ to C₉) heteroarylene, wherein

each of the said (C₆ to C₁₀) arylene or (C₂ to C₉) heteroarylene is optionally substituted with at least one R^{6a} group:

D is selected from the group consisting of



R^{10b} is selected from the group consisting of



R¹ is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nCO)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R² is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀)

cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -
 C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -
 (CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -
 NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

5 each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R³ is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀)
 10 cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -
 C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -
 (CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -
 NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R⁴ is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀)
 20 cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -
 C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -
 (CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -
 NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

R⁵ is selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀)
 30 cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -
 C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -
 (CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -
 NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each of the R^{6a} and R^{6b} is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -
 40 (CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -
 -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each R⁸ is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹³ group;

each of the R^{9a}, R^{9b}, and R^{9c} is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{11a}R^{11b}, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, -C(O)R¹², -C(O)NR^{11a}R^{11b}, -S(O)_mR¹², -S(O)_mNR^{11a}R^{11b}, -NR^{11a}S(O)_mR¹², -(CH₂)_nC(O)OR¹², -(CH₂)_nC(O)N(R^{11a}R^{11b}), -(CH₂)_nN(R^{11a}R^{11b}), -OC(O)R¹², -NR^{11a}C(O)R¹², and -NR^{11a}C(O)N(R^{11a}R^{11b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each of the R^{11a} and R^{11b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹³ group,

or R^{11a} and R^{11b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R¹³ group;

each of the R¹² is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R¹³ group;

each R^{13} is independently selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{14a}R^{14b}$, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, $-C(O)R^{15}$, $-C(O)NR^{14a}R^{14b}$, $-S(O)_mR^{15}$, $-S(O)_mNR^{14a}R^{14b}$, $-NR^{14a}S(O)_mR^{15}$, $-(CH_2)_nC(O)OR^{15}$, $-(CH_2)_nC(O)N(R^{14a}R^{14b})$, $-(CH_2)_nN(R^{14a}R^{14b})$, $-OC(O)R^{15}$, $-O(CH_2)_nO-$, $-NR^{14a}C(O)R^{15}$, and $-NR^{14a}C(O)N(R^{14a}R^{14b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R^{16} group;

each of the R^{14a} and R^{14b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₉) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R^{16} group,

or R^{14a} and R^{14b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R^{16} group;

each R^{15} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R^{16} group;

each R^{16} is independently selected from hydrogen, halogen, OH, nitro, CF_3 , $-NR^{17a}R^{17b}$, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, $-C(O)R^{18}$, $-C(O)NR^{17a}R^{17b}$, $-S(O)_mR^{18}$, $-S(O)_mNR^{17a}R^{17b}$, $-NR^{17a}S(O)_mR^{18}$, $-(CH_2)_nC(O)OR^{18}$, $-(CH_2)_nC(O)N(R^{17a}R^{17b})$, $-(CH_2)_nN(R^{17a}R^{17b})$, $-OC(O)R^{18}$, $-NR^{17a}C(O)R^{18}$, and $-NR^{17a}C(O)N(R^{17a}R^{17b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉)

heteroaryl, (C₆ to C₁₀) aryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R¹⁹ group;

each of the R^{17a} and R^{17b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, and (C₂ to C₉) heteroarylene is optionally substituted with at least one R¹⁹ group,

or R^{17a} and R^{17b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R¹⁹ group;

each R¹⁸ is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, and (C₆ to C₁₀) aryl is optionally substituted with at least one R¹⁹ group;

each R¹⁹ is independently selected from hydrogen, halogen, OH, nitro, CF₃, -NR^{20a}R^{20b}, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, -C(O)R²¹, -C(O)NR^{20a}R^{20b}, -S(O)_mR²¹, -S(O)_mNR^{20a}R^{20b}, -NR^{20a}S(O)_mR²¹, -(CH₂)_nC(O)OR²¹, -(CH₂)_nC(O)N(R^{20a}R^{20b}), -(CH₂)_nN(R^{20a}R^{20b}), -OC(O)R²¹, -NR^{20a}C(O)R²¹, and -NR^{20a}C(O)N(R^{20a}R^{20b}), wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R²² group;

each of the R^{20a} and R^{20b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl is optionally substituted with at least one R²² group,

or R^{20a} and R^{20b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S, and wherein

the said (C₂ to C₁₀) cycloheteroalkyl ring is optionally substituted with at least one R^{22} group;

each R^{21} is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl;

each R^{22} is independently selected from hydrogen, halogen, OH, nitro, CF₃, $-NR^{23a}R^{23b}$, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, $-C(O)R^{24}$, $-C(O)NR^{23a}R^{23b}$, $-S(O)_mR^{24}$, $-S(O)_mNR^{23a}R^{23b}$, $-NR^{23a}S(O)_mR^{24}$, $-(CH_2)_nC(O)OR^{24}$, $-(CH_2)_nC(O)N(R^{23a}R^{23b})$, $-(CH_2)_nN(R^{23a}R^{23b})$, $-OC(O)R^{24}$, $-NR^{23a}C(O)R^{24}$, and $-NR^{23a}C(O)N(R^{23a}R^{23b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R^{25} group;

each of the R^{23a} and R^{23b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₂ to C₉) heteroaryl, and (C₆ to C₁₀) aryl;

each R^{24} is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl;

each R^{25} is independently selected from hydrogen, halogen, OH, nitro, CF₃, $-NR^{26a}R^{26b}$, oxo, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, (C₂ to C₁₀) cycloheteroalkylene, $-C(O)R^{27}$, $-C(O)NR^{26a}R^{26b}$, $-S(O)_mR^{27}$, $-S(O)_mNR^{26a}R^{26b}$, $-NR^{26a}S(O)_mR^{27}$, $-(CH_2)_nC(O)OR^{27}$, $-(CH_2)_nC(O)N(R^{26a}R^{26b})$, $-(CH_2)_nN(R^{26a}R^{26b})$, $-OC(O)R^{27}$, $-NR^{26a}C(O)R^{27}$, and $-NR^{26a}C(O)N(R^{26a}R^{26b})$, wherein

each of the said (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl, (C₆ to C₁₀) arylene, (C₂ to C₉) heteroarylene, (C₃ to C₁₀) cycloalkylene, and (C₂ to C₁₀) cycloheteroalkylene is optionally substituted with at least one R^{27} group;

each of the R^{26a} and R^{26b} is independently selected from hydrogen, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, and (C₂ to C₉) heteroaryl,

or R^{26a} and R^{26b} may be taken together with the nitrogen atom to which they are attached to form a (C₂ to C₁₀) cycloheteroalkyl ring, wherein

said (C₂ to C₁₀) cycloheteroalkyl ring has 1 to 3 ring heteroatoms selected from the group consisting of N, O, and S;

- 5 each R^{27} is independently selected from hydrogen, halogen, OH, nitro, CF₃, (C₁ to C₁₀) alkyl, (C₁ to C₁₀) alkenyl, (C₁ to C₁₀) alkynyl, (C₁ to C₁₀) alkoxy, aryloxy, cyano, (C₃ to C₁₀) cycloalkyl, (C₅ to C₁₀) cycloalkenyl, (C₂ to C₁₀) cycloheteroalkyl, (C₆ to C₁₀) aryl, (C₂ to C₉) heteroaryl;

h is 1 or 2;

i is 2, 3, 4, 5, or 6;

- 10 j is 0, 1, 2, 3, 4, or 5;

k is 1, 2, 3, 4, or 5;

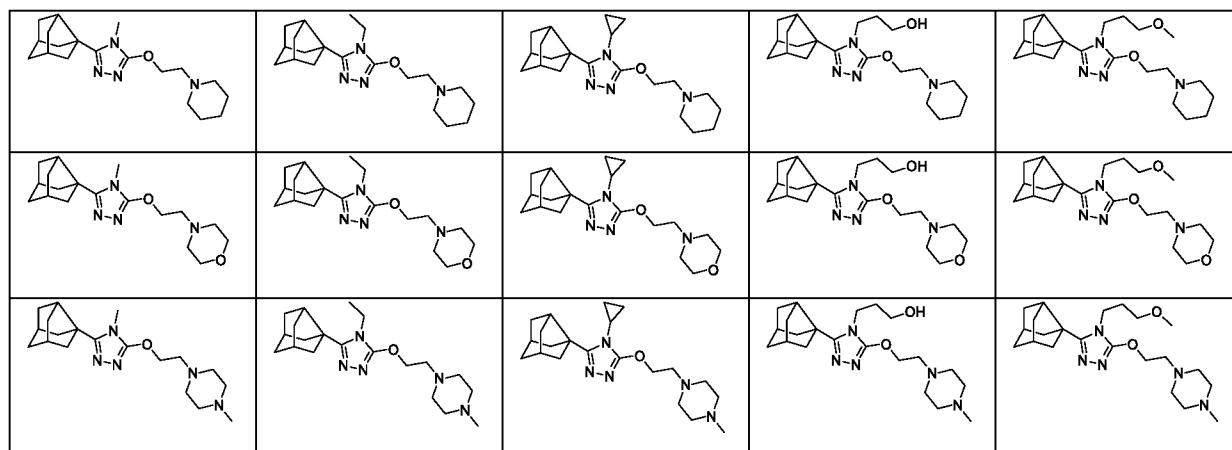
m is 0, 1 or 2;

n is 0, 1, 2, 3, or 4;

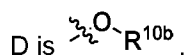
with the proviso that when X is C-A-D, and Y is CH₂,

- 15 then R^1 is not selected from the group consisting of hydrogen and methyl,

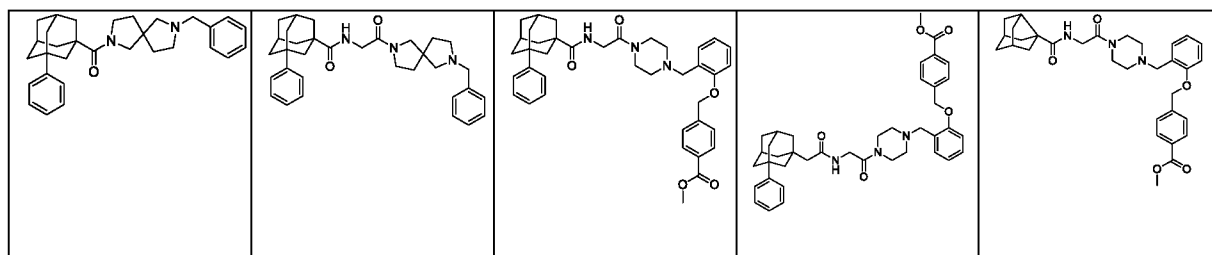
and with the proviso that the following compounds shall be excluded:

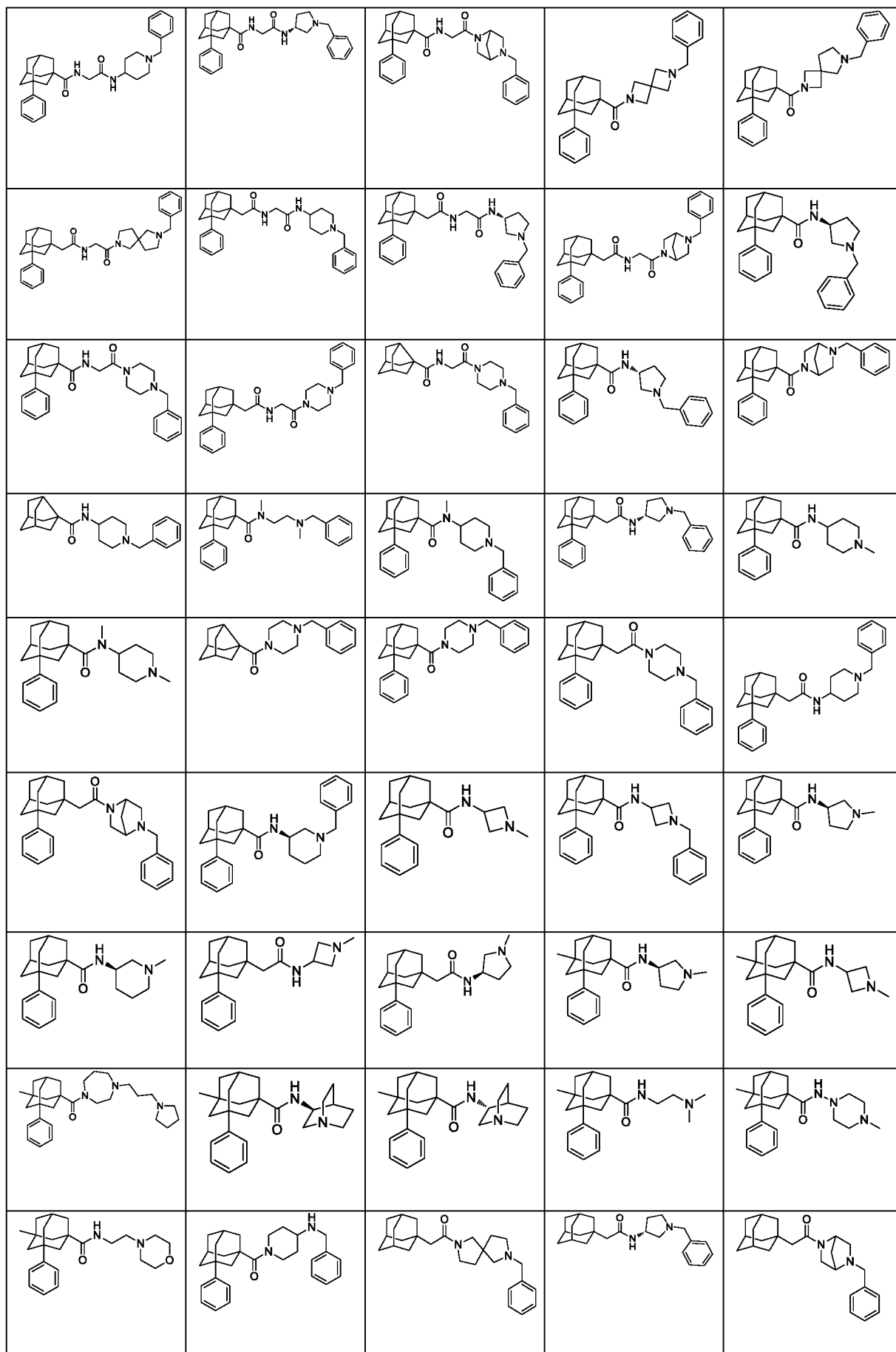


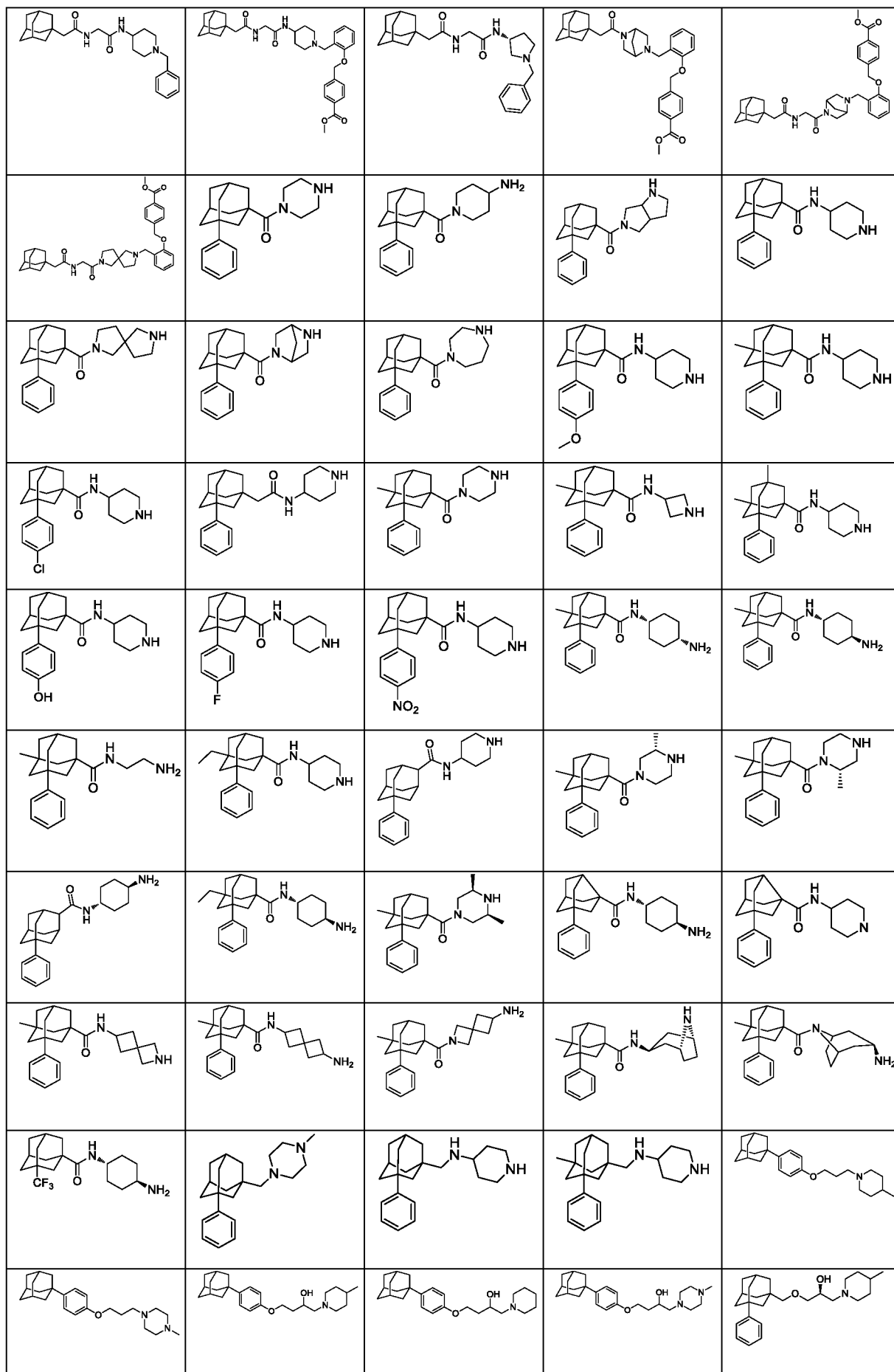
53. The compound of claim 52, wherein:



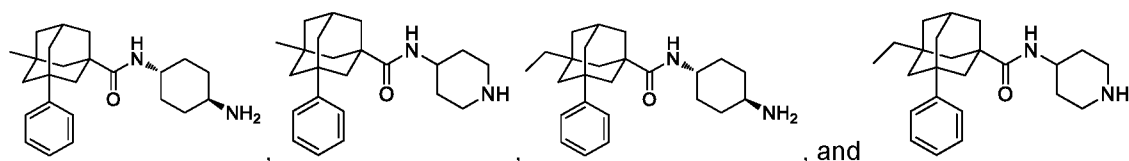
- 20 54. A compound selected from the group consisting of:







55. The compound of claim 54 selected from the group consisting of



STATEMENT UNDER ARTICLE 19 (1)

In response to the International Search Report dated 01 June 2017 regarding above referenced PCT patent application, applicant submits replacement sheets 157 to 209 under PCT Article 19. The following changes have been made:

Claim 1 is amended; claims 2 to 23 are unchanged; claim 24 is amended; claim 25 is unchanged; claims 26 and 27 are amended; claims 28 to 35 are unchanged; claim 36 is amended; claims 37 to 51 are unchanged; claims 52 and 53 are amended; claim 54 and 55 are unchanged.

It is believed that the amendments do not go beyond the disclosure of the application as filed.