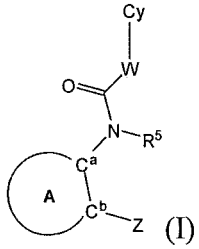
transcriptional activity and apoptosis of hippocampal neurons, indicating that the JNK3 signaling pathway is a critical component in the pathogenesis of glutamate neurotoxicity (Yang et al. , Nature 1997, 389:865-870).

[0010] In addition, JNK3 co-localizes immunochemically with neurons vulnerable in Alzheimer's disease (Mohit et al., supra). Based on these findings, JNK signalling, especially that of JNK3, has been implicated in the areas of apoptosis-driven neurodegenerative diseases such as Alzheimer's Disease, Parkinson's Disease, amyotrophic lateral sclerosis (ALS), epilepsy, seizures, Huntington's Disease, traumatic brain injuries, as well as ischemic and hemorrhaging stroke.

[0011] Drug molecules that inhibit MAPKs, such as p38 are known (see, e.g., WO 98/27098 and WO 95/31451). However, inhibitors that are selective for JNKs versus other members of the MAPK family are rare (see, e.g., U.S. Patent Application Publication 20080033022). There is an unmet medical need for the development of potent, JNK specific inhibitors that are useful in treating the various conditions associated with JNK activation.

SUMMARY

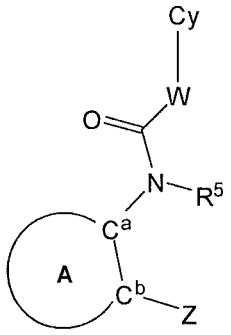
[0012] The present disclosure provides for a compound having a structure according to Formula (I):



(I)

or a salt or solvate thereof, wherein ring A is 5-membered heteroaryl comprising a sulfur atom, wherein the heteroaryl is optionally substituted with 1 or 2 substituents independently chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-Cio-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{12}, SR^{12}, $NR^{12}R^{13}$, $C(O)R^{14}$, $C(O)NR^{12}R^{13}$, $OC(O)NR^{12}R^{13}$, $C(O)OR^{12}$, $NR^{15}C(O)R^{14}$, $NR^{15}C(O)OR^{12}$, $NR^{15}C(O)NR^{12}R^{13}$, $NR^{15}C(S)NR^{12}R^{13}$, $NR^{15}S(O)_2R^{14}$, $S(O)_2NR^{12}R^{13}$, $S(O)R^{14}$ and $S(O)_2R^{14}$, wherein R^{12}, R^{13} and R^{15} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{12} and R^{13}, together with the nitrogen atom to which they are bound form a

[0012a] In a first aspect, there is provided a compound having a structure according to Formula (I):



(I)

or a salt or solvate thereof, wherein ring A is 5-membered heteroaryl comprising a sulfur atom,

wherein the heteroaryl is optionally substituted with 1 or 2 substituents independently chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_{10}-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{12}, SR^{12}, $NR^{12}R^{13}$, $C(O)R^{14}$, $C(O)NR^{12}R^{13}$, $OC(O)NR^{12}R^{13}$, $C(O)OR^{12}$, $NR^{15}C(O)R^{14}$, $NR^{15}C(O)OR^{12}$, $NR^{15}C(O)NR^{12}R^{13}$, $NR^{15}C(S)NR^{12}R^{13}$, $NR^{15}S(O)_2R^{14}$, $S(O)_2NR^{12}R^{13}$, $S(O)R^{14}$ and $S(O)_2R^{14}$,

wherein

R^{12}, R^{13} and R^{15} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{12} and R^{13}, together with the nitrogen atom to which they are bound form a 5- to 7-membered heterocyclic ring; and

R^{14} is chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl;

C^a and C^b are carbon atoms, which are adjacent to each other and are part of ring A;

Z is a triazole optionally substituted with one or more substituents, wherein each substituent is independently chosen from alkyl, cycloalkyl, alkenyl, alkynyl, heteroalkyl, heterocycloalkyl, aryl, heteroaryl, $-R^a$, $-OR^a$, $-SR^a$, $=O$, $=NR^a$, $=N-OR^a$, $-NR^aR^b$, -halogen, $-SiR^aR^bR^c$, $-OC(O)R^a$, $-C(O)R^e$, $-C(O)OR^a$, $-C(O)NR^aR^b$, $-OC(O)NR^aR^b$, $-NR^cC(O)R^e$, $-NR^cC(O)NR^aR^b$, $-NR^cC(S)NR^aR^b$, $-NR^cC(O)OR^a$, $-NR^cC(NR^aR^b)=NR^d$, $-S(O)R^e$, $-S(O)_2R^e$, $-S(O)_2NR^aR^b$, $-NR^cS(O)_2R^a$, -CN, $-NO_2$, $-N_3$, $-CH(Ph)_2$, fluoro(C_1-C_4)alkoxy, and fluoro(C_1-C_4)alkyl, in a number ranging from zero to the total number of open valences on the aromatic ring system, wherein R^a, R^b, R^c, R^d and R^e each independently refer to hydrogen, C_1-C_{24} alkyl, C_3-C_{10} cycloalkyl, C_1-C_{24} heteroalkyl, C_3-C_{10}

heterocycloalkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl; and wherein where two R groups are attached to the same nitrogen atom, they can be combined with the nitrogen atom to form a 5-, 6- , or 7-membered ring;

R^5 is chosen from H, acyl, substituted or unsubstituted C_1-C_6 alkyl, and C_3-C_6 cycloalkyl;

W is chosen from C_1-C_4 alkylene, wherein the alkylene is optionally substituted with 1-4 substituents independently chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_6-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{42}, SR^{42}, $NR^{42}R^{43}$, $C(O)R^{44}$, $C(O)NR^{42}R^{43}$, $OC(O)NR^{42}R^{43}$, $C(O)OR^{42}$, $NR^{45}C(O)R^{44}$, $NR^{45}C(O)OR^{42}$, $NR^{45}C(O)NR^{42}R^{43}$, $NR^{45}C(S)NR^{42}R^{43}$, $NR^{45}S(O)_2R^{44}$, $S(O)_2NR^{42}R^{43}$, $S(O)R^{44}$, and $S(O)_2R^{44}$, wherein

R^{42}, R^{43} and R^{45} are members independently chosen from H, acyl, C_1-C_6-alkyl, 2-to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{42} and R^{43}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{44} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl;

Cy is chosen from cycloalkyl, heterocycloalkyl, aryl, and heteroaryl, wherein the cycloalkyl, heterocycloalkyl, aryl or heteroaryl is optionally substituted with 1 - 6 substituents independently chosen from substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, haloalkyl, substituted or unsubstituted heteroalkyl , substituted or unsubstituted cycloalkyl, substituted or unsubstituted heterocycloalkyl , substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, CN, halogen, OR^{52}, SR^{52}, $NR^{52}R^{53}$, $C(O)R^{54}$, $C(O)NR^{52}R^{53}$, $OC(O)NR^{52}R^{53}$, $C(O)OR^{52}$, $NR^{55}C(O)R^{54}$, $NR^{55}C(O)OR^{52}$, $NR^{55}C(O)NR^{52}R^{53}$, $NR^{55}C(S)NR^{52}R^{53}$, $NR^{55}S(O)_2R^{54}$, $S(O)_2NR^{52}R^{53}$, $S(O)R^{54}$ and $S(O)_2R^{54}$, wherein

R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{52} and R^{53}, together with

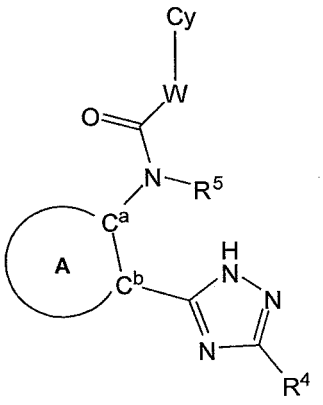
the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl

wherein the aryl groups are chosen from 5-, 6- or 7-membered, aromatic carbocyclic group having a single ring or being fused to other aromatic or non-aromatic rings; and wherein the heteroaryl groups are chosen from polyunsaturated, 5-, 6- or 7-membered aromatic moiety containing at least one heteroatom chosen from N, O, S, Si and B, wherein the nitrogen and sulphur atoms are optionally oxidized, and the nitrogen atom(s) are optionally quarternized, and wherein the heteroaryl groups can be a single ring or be fused to other aryl, heteroaryl, cycloalkyl or heterocycloalkyl rings.

wherein R^{42}, $R^{43}$and R^{45} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{42} and R^{43}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and R^{44} is independently chosen from acyl, Ci-Cβ-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl; Cy is chosen from cycloalkyl, heterocycloalkyl, aryl, and heteroaryl, wherein the cycloalkyl, heterocycloalkyl, aryl or heteroaryl is optionally substituted with 1 - 6 substituents independently chosen from substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, haloalkyl, substituted or unsubstituted heteroalkyl , substituted or unsubstituted cycloalkyl, substituted or unsubstituted heterocycloalkyl , substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, CN, halogen, OR^{52}, SR^{52}, $NR^{52}R^{53}$, $C(O)R^{54}$, $C(O)NR^{52}R^{53}$, $OC(O)NR^{52}R^{53}$, $C(O)OR^{52}$, $NR^{55}C(O)R^{54}$, $NR^{55}C(O)OR^{52}$, $NR^{55}C(O)NR^{52}R^{53}$, $NR^{55}C(S)NR^{52}R^{53}$, $NR^{55}S(O)_2R^{54}$, $S(O)_2NR^{52}R^{53}$, $S(O)R^{54}$ and $S(O)_2R^{54}$, wherein R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5-or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{52} and R^{53}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3-to 8-membered heterocycloalkyl. The present disclosure further provides for a pharmaceutical composition comprising a compound according to Formula (VIII) and a pharmaceutically acceptable carrier.

[0013a] In a second aspect, there is provided a compound having a structure according to Formula (VIII):



(VIII)

or a tautomer, mixture of tautomers, salt or solvate thereof,

wherein ring A is 5- membered heteroaryl comprising a sulfur atom, wherein the heteroaryl is optionally substituted with 1 - 3 substituents independently chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_{10}-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{12}, SR^{12}, $NR^{12}R^{13}$, $C(O)R^{14}$, $C(O)NR^{12}R^{13}$, $OC(O)NR^{12}R^{13}$, $C(O)OR^{12}$, $NR^{15}C(O)R^{14}$, $NR^{15}C(O)OR^{12}$, $NR^{15}C(O)NR^{12}R^{13}$, $NR^{15}C(S)NR^{12}R^{13}$, $NR^{15}S(O)_2R^{14}$, $S(O)_2NR^{12}R^{13}$, $S(O)R^{14}$ and $S(O)_2R^{14}$,

wherein

R^{12}, R^{13} and R^{15} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{12} and R^{13}, together with the nitrogen atom to which they are bound form a 5- to 7-membered heterocyclic ring; and

R^{14} is chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl;

C^a and C^b are carbon atoms, which are adjacent to each other and, which are part of ring A;

R^4 is chosen from H, C_1-C_4 alkyl, C_2-C_4 alkenyl, C_2-C_4 alkynyl, C_1-C_4 haloalkyl, C_3-C_6 cycloalkyl, 3- to 6-membered heterocycloalkyl, aryl, and 5- or 6-membered heteroaryl, CN, halogen, OR^{17}, SR^{17} and $NR^{17}R^{18}$,

wherein

R^{17} and R^{18} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{17} and R^{18}, together with the nitrogen atom to which they are bound form a 5- to 7-membered heterocyclic ring;

R^5 is chosen from H, acyl, substituted or unsubstituted C_1-C_6 alkyl, and C_3-C_6 cycloalkyl;

W is chosen from C_1-C_4 alkylene, wherein the alkylene is optionally substituted with from 1 to 4 substituents chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_6-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{42}, SR^{42}, $NR^{42}R^{43}$, $C(O)R^{44}$, $C(O)NR^{42}R^{43}$, $OC(O)NR^{42}R^{43}$, $C(O)OR^{42}$, $NR^{45}C(O)R^{44}$, $NR^{45}C(O)OR^{42}$, $NR^{45}C(O)NR^{42}R^{43}$, $NR^{45}C(S)NR^{42}R^{43}$, $NR^{45}S(O)_2R^{44}$, $S(O)_2NR^{42}R^{43}$, $S(O)R^{44}$, and $S(O)_2R^{44}$,

wherein

R^{42}, R^{43} and R^{45} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered

heterocycloalkyl, wherein R^{42} and R^{43}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{44} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl;

Cy is chosen from cycloalkyl, heterocycloalkyl, aryl, and heteroaryl, wherein the cycloalkyl, heterocycloalkyl, aryl or heteroaryl is optionally substituted with 1 - 6 substituents independently chosen from substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, haloalkyl, substituted or unsubstituted heteroalkyl , substituted or unsubstituted cycloalkyl, substituted or unsubstituted heterocycloalkyl , substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, CN, halogen, OR^{52}, SR^{52}, $NR^{52}R^{53}$, $C(O)R^{54}$, $C(O)NR^{52}R^{53}$, $OC(O)NR^{52}R^{53}$, $C(O)OR^{52}$, $NR^{55}C(O)R^{54}$, $NR^{55}C(O)OR^{52}$, $NR^{55}C(O)NR^{52}R^{53}$, $NR^{55}C(S)NR^{52}R^{53}$, $NR^{55}S(O)_2R^{54}$, $S(O)_2NR^{52}R^{53}$, $S(O)R^{54}$ and $S(O)_2R^{54}$,

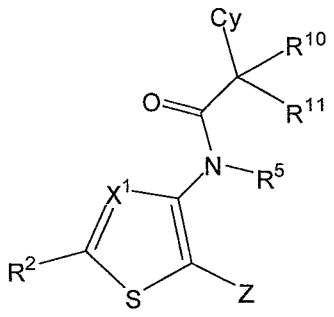
wherein

R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{52} and R^{53}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

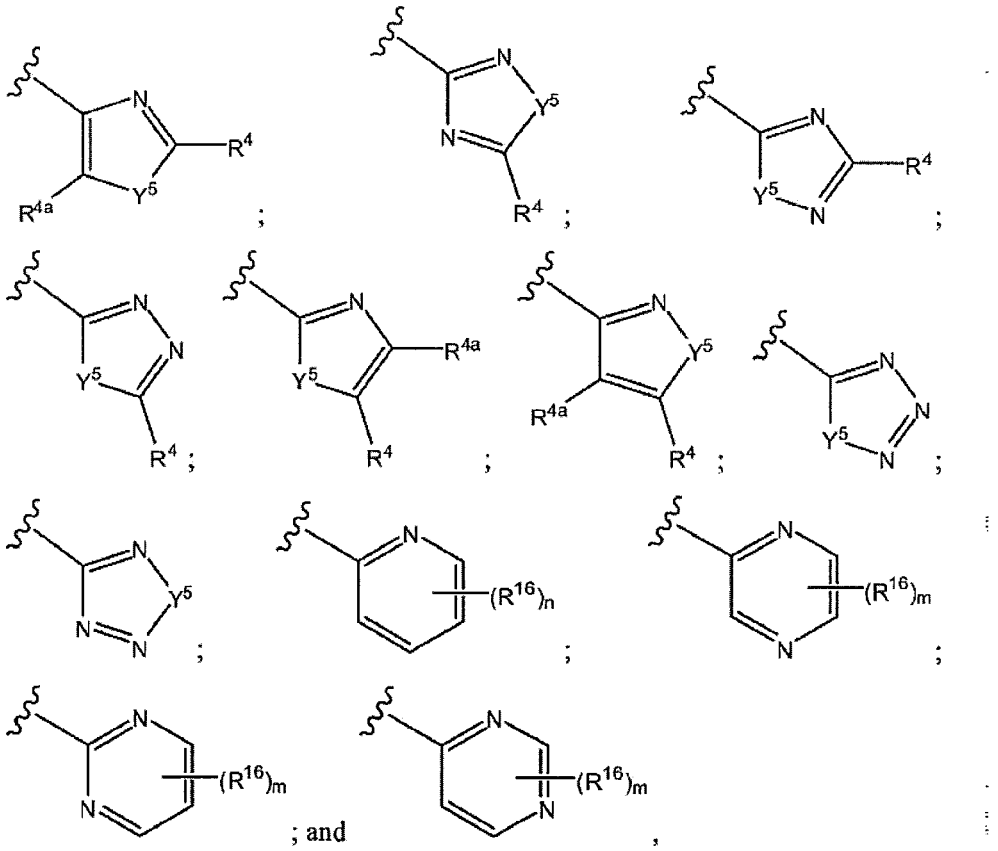
R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl,

wherein the aryl groups are chosen from 5-, 6- or 7-membered, aromatic carbocyclic group having a single ring or being fused to other aromatic or non-aromatic rings; and wherein the heteroaryl groups are chosen from polyunsaturated, 5-, 6- or 7-membered aromatic moiety containing at least one heteroatom chosen from N, O, S, Si and B, wherein the nitrogen and sulphur atoms are optionally oxidized, and the nitrogen atom(s) are optionally quarternized, and wherein the heteroaryl groups can be a single ring or be fused to other aryl, heteroaryl, cycloalkyl or heterocycloalkyl rings.

[0014] The present disclosure further provides for a compound having a structure according to Formula (X) or Formula (XI):

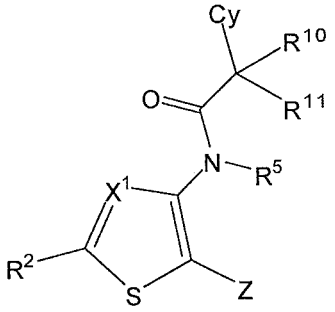


(X)

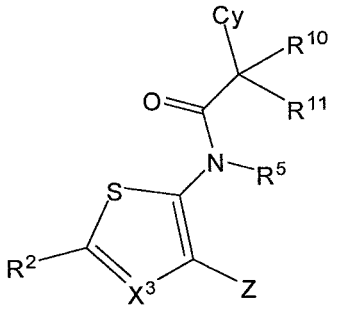


wherein Y^5 is chosen from O, S and NR^3, wherein R^3 is chosen from H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, and 5- or 6-membered heteroaryl; and R^4, R^{4a} and R^{16} are independently chosen from H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{17}, SR^{17} and $NR^{17}R^{18}$, wherein R^{17} and R^{18} are independently chosen from H, acyl, Ci-Cβ-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{17} and R^{18}, together with the nitrogen atom to which they are bound form a 5- to 7-membered heterocyclic ring, or two of R^4, R^{4a} and R^3, together with the atoms to which they are attached, form a 5- to 7-membered ring, or adjacent R^{16} groups, together with the carbon atoms to which they are attached, form a 5- to 7-membered ring; n is an integer chosen from 0 to 4; and m is an integer chosen from 0 to 3. The present disclosure further provides for a pharmaceutical composition comprising a compound according to Formula (X) or (XI) and a pharmaceutically acceptable carrier.

[0014a] In a third aspect, there is provided a compound having a structure according to Formula (X) or Formula (XI):



(X)



or (XI)

or a salt or solvate thereof,

wherein

X^1 and X^3 are independently chosen from N and CR^{2a};

R^2 and R^{2a} are independently chosen from H, C_1-C_4-alkyl, C_2-C_4-alkenyl, C_2-C_4-alkynyl, C_1-C_4-haloalkyl, 2- to 4-membered heteroalkyl, C_3-C_6-cycloalkyl, 3- to 6-membered heterocycloalkyl, CN, and halogen;

R^{10} and R^{11} are independently chosen from H, C_1-C_6-alkyl, C_2-C_6-alkenyl, C_2-C_6-alkynyl, C_1-C_6-haloalkyl, 2- to 6-membered heteroalkyl, C_3-C_6-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{42}, SR^{42}, $NR^{42}R^{43}$, $C(O)R^{44}$, $C(O)NR^{42}R^{43}$, $OC(O)NR^{42}R^{43}$, $C(O)OR^{42}$, $NR^{45}C(O)R^{44}$, $NR^{45}C(O)OR^{42}$, $NR^{45}C(O)NR^{42}R^{43}$, $NR^{45}C(S)NR^{42}R^{43}$, $NR^{45}S(O)_2R^{44}$, $S(O)_2NR^{42}R^{43}$, $S(O)R^{44}$ and $S(O)_2R^{44}$,

wherein

R^{42}, R^{43} and R^{45} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{42} and R^{43}, together with the nitrogen atom to which they are bound form a 5- to 7-membered heterocyclic ring; and

R^{44} is chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl;

R^5 is chosen from H and substituted or unsubstituted C_1-C_6 alkyl;

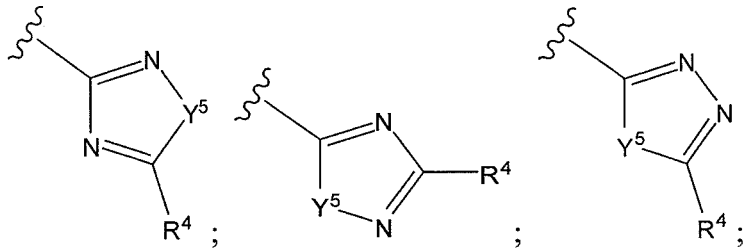
Cy is chosen from cycloalkyl, heterocycloalkyl, aryl, and heteroaryl, wherein the cycloalkyl, heterocycloalkyl, aryl or heteroaryl is optionally substituted with from 1 to 6 substituents independently chosen from C_1-C_6-alkyl, C_2-C_6-alkenyl, C_2-C_6-alkynyl, C_1-C_6-haloalkyl, 2- to 6-membered heteroalkyl, C_3-C_{12}-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{52}, SR^{52}, $NR^{52}R^{53}$, $C(O)R^{54}$, $C(O)NR^{52}R^{53}$, $OC(O)NR^{52}R^{53}$, $C(O)OR^{52}$, $NR^{55}C(O)R^{54}$, $NR^{55}C(O)OR^{52}$, $NR^{55}C(O)NR^{52}R^{53}$, $NR^{55}C(S)NR^{52}R^{53}$, $NR^{55}S(O)_2R^{54}$, $S(O)_2NR^{52}R^{53}$, $S(O)R^{54}$ and $S(O)_2R^{54}$,

wherein

R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{52} and R^{53}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl; and

Z is chosen from:



wherein

Y^5 is NR^3, wherein R^3 is chosen from H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, and 5- or 6-membered heteroaryl; and

R^4 is chosen from H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{17}, SR^{17} and $NR^{17}R^{18}$,

wherein

R^{17} and R^{18} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{17} and R^{18}, together with the nitrogen atom to which they are bound form a 5-to 7-membered heterocyclic ring,

wherein the aryl groups are chosen from 5-, 6- or 7-membered, aromatic carbocyclic group having a single ring or being fused to other aromatic or non-aromatic rings; and wherein the heteroaryl groups are chosen from polyunsaturated, 5-, 6- or 7-membered aromatic moiety containing at least one heteroatom chosen from N, O, S, Si and B, wherein the nitrogen and sulphur atoms are optionally oxidized, and the nitrogen atom(s) are optionally quarternized, and wherein the heteroaryl groups can be a single ring or be fused to other aryl, heteroaryl, cycloalkyl or heterocycloalkyl rings.

[0015] The present disclosure also provides for a method of treating a neurodegenerative disease comprising administering to a mammalian subject in need thereof a pharmaceutically effective amount of a compound having a structure according to Formula (I):

unsubstituted alkynyl, haloalkyl, substituted or unsubstituted heteroalkyl , substituted or unsubstituted cycloalkyl, substituted or unsubstituted heterocycloalkyl , substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, CN, halogen, OR^{52}, SR^{52}, $NR^{52}R^{53}$, $C(O)R^{54}$, $C(O)NR^{52}R^{53}$, $OC(O)NR^{52}R^{53}$, $C(O)OR^{52}$, $NR^{55}C(O)R^{54}$, $NR^{55}C(O)OR^{52}$, $NR^{55}C(O)NR^{52}R^{53}$, $NR^{55}C(S)NR^{52}R^{53}$, $NR^{55}S(O)_2R^{54}$, $S(O)_2NR^{52}R^{53}$, $S(O)R^{54}$ and $S(O)_2R^{54}$, wherein R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{52} and R^{53}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl; (ii) adding a kinase substrate and ATP or a derivative thereof to the mixture; and (iii) measuring an amount of phosphorylated kinase substrate. In one example, the method further comprises measuring phosphorylated kinase substrate, such as phospho-cJun.

[0019a] In a fourth aspect, there is provided a compound chosen from:

N-(2-(1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(naphthalen-l-yl)acetamide;

N-(2-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(naphthalen-l-yl)acetamide;

N-(2-(1,3-dimethyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(naphthalen-l-yl)acetamide;

2-(4-methoxyphenyl)-N-(2-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)acetamide;

N-(2-(1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;

N-(2-(1H-1,2,4-triazol-1-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;

2-(4-methoxyphenyl)-N-(4-methyl-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)acetamide;

N-(2-(2H-1,2,3-triazol-2-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;

N-(2-(3-cyclopropyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;

N-(2-(3-ethyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;

N-(2-(3-tert-butyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;

2-(4-methoxyphenyl)-N-(2-(3-(tetrahydrofuran-2-yl)-1H-1,2,4-triazol-5-yl)thiophen-3-yl)acetamide;

2-(4-methoxyphenyl)-N-(2-(3-(trifluoromethyl)-1H-1,2,4-triazol-5-yl)thiophen-3-yl)acetamide;

N-(4-methyl-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;

N-(4-methyl-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;

2-(4-methoxyphenyl)-N-(2-(3-(pyridin-4-yl)-1H-1,2,4-triazol-5-yl)thiophen-3-yl)acetamide;

N-(2-(3-amino-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;

N-(3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(isoquinolin-5-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;

N-(2-(1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)acetamide;

N-(4-methyl-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;

2-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-N-(2-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)acetamide;

N-(2-(1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(quinolin-5-yl)acetamide;

N-(4-methyl-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;

N-(4-methyl-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinoxalin-5-yl)acetamide;

N-(4-methyl-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinoxalin-5-yl)acetamide;

N-(4-methyl-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(4-(3-(piperidin-1-yl)propoxy)phenyl)acetamide;

N-(4-methyl-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(4-(3-(piperidin-1-yl)propoxy)phenyl)acetamide;

2-(4-(2-(1H-imidazol-1-yl)ethoxy)phenyl)-N-(4-methyl-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(isoquinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;

N-(4-cyano-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(isoquinolin-5-yl)acetamide;

N-(4-cyano-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;

N-(2-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-(2-oxopyrrolidin-1-yl)phenyl)acetamide;

N-(4-methyl-3-(5-methyl-4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(4-(pyridin-4-yl)phenyl)acetamide;

N-(4-cyano-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoro-2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(7-fluoro-2-oxoquinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(7-chloro-2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6,7-difluoro-2-oxoquinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoro-2-oxoquinolin-1(2H)-yl)acetamide;

2-(isoquinolin-5-yl)-N-(2-(4-methylthiazol-2-yl)thiophen-3-yl)acetamide;2-(isoquinolin-5-yl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;

2-(2-oxo-3,4-dihydro-1,6-naphthyridin-1(2H)-yl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;

2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;

2-(isoquinolin-5-yl)-N-(2-(2-methoxythiazol-4-yl)thiophen-3-yl)acetamide;

N-(2-(2-chlorothiazol-4-yl)thiophen-3-yl)-2-(isoquinolin-5-yl)acetamide;

2-(isoquinolin-5-yl)-N-(2-(thiazol-2-yl)thiophen-3-yl)acetamide;

2-(isoquinolin-5-yl)-N-(2-(5-methylthiazol-2-yl)thiophen-3-yl)acetamide;

2-(4-(3-(piperidin-1-yl)propoxy)phenyl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;

N-(3-(benzo[d]thiazol-2-yl)-4-methylthiophen-2-yl)-2-(isoquinolin-5-yl)acetamide;

2-(4-methoxyphenyl)-N-(2-(oxazol-2-yl)thiophen-3-yl)acetamide;

2-(isoquinolin-5-yl)-N-(2-(oxazol-2-yl)thiophen-3-yl)acetamide;

2-(4-methoxyphenyl)-N-(3-(5-methyl-1,2,4-oxadiazol-3-yl)thiophen-2-yl)acetamide;

N-(2-(1,3,4-oxadiazol-2-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;

2-(4-methoxyphenyl)-N-(2-(5-methyl-1,3,4-oxadiazol-2-yl)thiophen-3-yl)acetamide;

N-(2-(5-isopropyl-1,3,4-oxadiazol-2-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;

N-(2-(5-methyl-1,3,4-oxadiazol-2-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;

N-(4-methyl-3-(3-methyl-1,2,4-oxadiazol-5-yl)thiophen-2-yl)-2-(naphthalen-1-yl)acetamide;

N-(4-methyl-3-(3-methyl-1,2,4-oxadiazol-5-yl)thiophen-2-yl)-2-(4-(pyridin-4-yl)phenyl)acetamide;

N-(2-(3-methyl-1,2,4-oxadiazol-5-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;

N-(4-(1H-1,2,4-triazol-5-yl)thiazol-5-yl)-2-(isoquinolin-5-yl)acetamide;

2-(isoquinolin-5-yl)-N-(4-(1-methyl-1H-1,2,4-triazol-5-yl)thiazol-5-yl)acetamide;

2-(2-pyridyl)-3-(1-naphthylacetylamino)thiophene;

N-(2-(1H-pyrazol-1-yl)thiophen-3-yl)-2-(4-methoxyphenyl)-acetamide;

2-(4-methoxyphenyl)-N-(2-(4-methyl-1H-pyrazol-1-yl)thiophen-3-yl)acetamide;

N-(2-(1H-pyrazol-3-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;

N-(2-(1-methyl-1H-pyrazol-3-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;

N-(2-(5-methyl-1H-pyrazol-3-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;

N-(3-(2H-tetrazol-5-yl)thiophen-2-yl)-2-(4-methoxyphenyl)-acetamide;

2-(4-methoxyphenyl)-N-(3-(2-methyl-2H-tetrazol-5-yl)thiophen-2-yl)acetamide;

N-(3-(1-(methoxymethyl)-1H-tetrazol-5-yl)thiophen-2-yl)-2-(4-methoxyphenyl)acetamide;

N-(2-(1-methyl-1H-imidazol-2-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;

2-(4-methoxyphenyl)-N-(2-(1-methyl-1H-imidazol-4-yl)thiophen-3-yl)acetamide;

N-(2-(1H-imidazol-4-yl)thiophen-3-yl)-2-(4-methoxyphenyl)-acetamide;

N-(2-(1H-imidazol-4-yl)thiophen-3-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;

2-(4-methoxyphenyl)-N-(2-(2-methyl-1H-imidazol-4-yl)thiophen-3-yl)acetamide;

N-(2-(2-methyl-1H-imidazol-4-yl)thiophen-3-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;

N-(2-(1H-imidazol-1-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;

2-(4-methoxyphenyl)-N-(2-(pyrazin-2-yl)thiophen-3-yl)acetamide;2-(isoquinolin-5-yl)-N-(4-(pyrazin-2-yl)thiazol-5-yl)acetamide;

N-(4,4'-bithiazol-5-yl)-2-(isoquinolin-5-yl)acetamide;

2-(4-methoxyphenyl)-N-(2-(2-oxooxazolidin-3-yl)thiophen-3-yl)acetamide;

2-(7-bromo-2-oxo-3,4-dihydroquinolin-1(2H)-yl)-N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)acetamide;

N-(4-bromo-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(quinolin-4-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(8-fluoroisoquinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-1,6-naphthyridin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(8-fluoroquinolin-5-yl)acetamide;

N-(4-bromo-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(7-(trifluoromethyl)quinolin-5-yl)acetamide;

N-(4-bromo-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(5-(trifluoromethyl)quinolin-7-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,6-naphthyridin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-chloro-2-oxoquinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(5-fluoro-2-oxoquinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(3-fluoroquinolin-8-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethoxy)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(isoquinolin-4-yl)acetamide;

N-(5-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(3-fluoroquinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethoxy)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(7-cyano-2-oxoquinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(isoquinolin-8-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-cyano-2-oxoquinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinolin-8-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-5-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)-3,4-dihydroquinolin-1(2H)-yl)acetamide;

N-(4-cyano-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-(trifluoromethyl)quinolin-7-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(7-fluoroquinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(3-(trifluoromethyl)quinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoroquinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoroquinolin-7-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-ethynyl-2-oxoquinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethyl)-1,6-naphthyridin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(5-oxopyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(3-(trifluoromethyl)quinolin-8-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-methylimidazo[2,1-b]thiazol-3-yl)acetamide;

2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;

N-(4-cyano-3-(pyrazin-2-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;

2-(2-oxo-1,6-naphthyridin-1(2H)-yl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;

N-(4-bromo-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(3,3-difluoro-2-oxoindolin-1-yl)acetamide;

2-(benzo[d]thiazol-7-yl)-N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-cyano-3-(oxazol-2-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(3-(1,2,4-oxadiazol-3-yl)thiophen-2-yl)-2-(6,7-difluoro-2-oxoquinolin-1(2H)-yl)acetamide;

N-(4-cyano-3-(thiazol-2-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(5-oxo-2-(trifluoromethyl)pyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;

N-(4-cyano-3-(thiazol-4-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(imidazo[1,2-a]pyridin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(7-fluoro-2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-cyano-3-(thiazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-cyano-3-(1H-1,2,3-triazol-1-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(3-(1H-benzo[d][1,2,3]triazol-1-yl)-4-cyanothiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoroisoquinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoroisoquinolin-7-yl)acetamide;

N-(4-cyano-3-(2H-1,2,3-triazol-2-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-cyano-3-(thiazol-2-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(5-oxopyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;

N-(4-bromo-3-(oxazol-2-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-bromo-3-(thiazol-2-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(thiazol-2-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(3-(benzo[d]thiazol-2-yl)-4-cyanothiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1-(3-(dimethylamino)propyl)-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1-(3-(4-methylpiperazin-l-yl)propyl)-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-chloro-3-(3-ethyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1-(2-(dimethylamino)ethyl)-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-N-(2-(dimethylamino)ethyl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-cyano-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(5-oxopyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;

N-(4-chloro-3-(1-(3-morpholinopropyl)-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)-N-(3-(pyrrolidin-1-yl)propyl)acetamide;

N-(4-chloro-3-(1-(3-(pyrrolidin-1-yl)propyl)-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(8-(trifluoromethyl)quinolin-5-yl)acetamide;

N-(4-bromo-3-(2H-1,2,3-triazol-2-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(3-isopropyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

2-(6-bromo-2-oxoquinolin-1(2H)-yl)-N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)acetamide;

N-(4-cyano-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

2-(6-bromo-2-oxoquinolin-1(2H)-yl)-N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(6-cyano-2-oxoquinolin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(5-oxo-2-(trifluoromethyl)pyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;

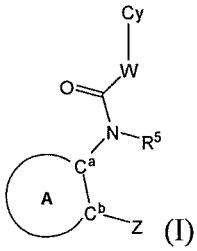
N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethyl)-1,6-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(5-oxo-2-(trifluoromethyl)pyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;and

N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethyl)-1,6-naphthyridin-1(2H)-yl)acetamide,

or a pharmaceutically acceptable salt thereof.

[0020] The present invention also provides for an in vitro method comprising contacting a cell with a compound having a structure according to Formula (I):



(I)

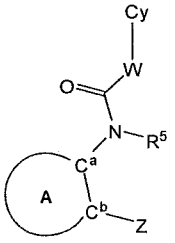
or a salt or solvate thereof, wherein ring A is 5-membered heteroaryl comprising a sulfur atom, wherein the heteroaryl is optionally substituted with 1 or 2 substituents independently chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_{10}-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{12}, SR^{12}, $NR^{12}R^{13}$, $C(O)R^{14}$, $C(O)NR^{12}R^{13}$, $OC(O)NR^{12}R^{13}$, $C(O)OR^{12}$, $NR^{15}C(O)R^{14}$, $NR^{15}C(O)OR^{12}$, $NR^{15}C(O)NR^{12}R^{13}$, $NR^{15}C(S)NR^{12}R^{13}$, $NR^{15}S(O)_2R^{14}$, $S(O)_2NR^{12}R^{13}$, $S(O)R^{14}$ and $S(O)_2R^{14}$, wherein R^{12}, R^{13} and R^{15} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{12} and R^{13}, together with the nitrogen atom to which they are bound form a 5- to 7-membered heterocyclic ring; and R^{14} is chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered

N-(4-chloro-3-(lH-l,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethyl)-l,6-naphthyridin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(5-oxo-2-(trifluoromethyl)pyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide; and
N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethyl)-1,6-naphthyridin-1(2H)-yl)acetamide,

or a pharmaceutically acceptable salt thereof.

[0020b] In a fifth aspect, there is provided a pharmaceutical composition comprising a compound as described herein and a pharmaceutically acceptable carrier.

[0020c] The present invention also provides a use of a pharmaceutically effective amount of a compound having a structure according to Formula (I):



(I)

or a salt or solvate thereof,

wherein

ring A is 5-membered heteroaryl comprising a sulfur atom, wherein the heteroaryl is optionally substituted with 1 or 2 substituents independently chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_{10}-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{12}, SR^{12}, $NR^{12}R^{13}$, $C(O)R^{14}$, $C(O)NR^{12}R^{13}$, $OC(O)NR^{12}R^{13}$, $C(O)OR^{12}$, $NR^{15}C(O)R^{14}$, $NR^{15}C(O)OR^{12}$, $NR^{15}C(O)NR^{12}R^{13}$, $NR^{15}C(S)NR^{12}R^{13}$, $NR^{15}S(O)_2R^{14}$, $S(O)_2NR^{12}R^{13}$, $S(O)R^{14}$ and $S(O)_2R^{14}$,

wherein

R^{12}, R^{13} and R^{15} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8

heteroaryl, CN, halogen, OR^{52}, SR^{52}, $NR^{52}R^{53}$, $C(O)R^{54}$, $C(O)NR^{52}R^{53}$, $OC(O)NR^{52}R^{53}$, $C(O)OR^{52}$, $NR^{55}C(O)R^{54}$, $NR^{55}C(O)OR^{52}$, $NR^{55}C(O)NR^{52}R^{53}$, $NR^{55}C(S)NR^{52}R^{53}$, $NR^{55}S(O)_2R^{54}$, $S(O)_2NR^{52}R^{53}$, $S(O)R^{54}$ and $S(O)_2R^{54}$,

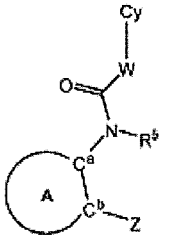
wherein

R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8- membered heterocycloalkyl, wherein R^{52} and R^{53}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl in the manufacture of a medicament for treating a neurodegenerative disease.

In a sixth aspect, there is provided use of a pharmaceutically effective amount of a compound as described herein in the manufacture of a medicament for treating a neurodegenerative disease.

[0020d] The present invention also provides use of a compound having a structure according to Formula (I):



(I)

or a salt or solvate thereof,
wherein

ring A is 5-membered heteroaryl comprising a sulfur atom, wherein the heteroaryl is optionally substituted with 1 or 2 substituents independently chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_{10}-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{12}, SR^{12}, $NR^{12}R^{13}$, $C(O)R^{14}$, $C(O)NR^{12}R^{13}$, $OC(O)NR^{12}R^{13}$, $C(O)OR^{12}$, $NR^{15}C(O)R^{14}$, $NR^{15}C(O)OR^{12}$, $NR^{15}C(O)NR^{12}R^{13}$, $NR^{15}C(S)NR^{12}R^{13}$, $NR^{15}S(O)_2R^{14}$, $S(O)_2NR^{12}R^{13}$, $S(O)R^{14}$ and $S(O)_2R^{14}$,

wherein

R^{12}, R^{13} and R^{15} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{12} and R^{13},

wherein

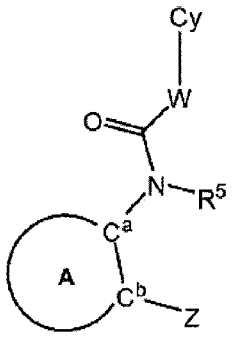
R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{52} and R^{53}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl in the manufacture of a medicament for reducing p-cjun concentration in brain tissue of a subject in need thereof.

[0020e] In a seventh aspect, there is provided use of a compound in an *in vitro* assay measuring kinase activity, said compound being a compound as described herein.

[0020f] In an eighth aspect, there is provided an *in vitro* method for measuring phosphorpylated kinase substrate comprising:

(i) creating a mixture comprising a kinase and a compound as described herein:



(I)

(ii) adding a kinase substrate and ATP or a derivative thereof to the mixture; and

(iii) measuring an amount of phosphorylated kinase substrate.

[0020g] In a ninth aspect, there is provided an *in vitro* method comprising contacting a cell with a compound as described herein.

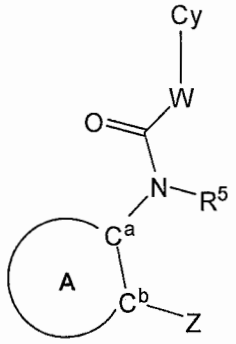
DETAILED DESCRIPTION OF THE DISCLOSURE

Definitions

[0021] The definitions and explanations below are for the terms as used throughout this entire document including both the specification and the claims. Throughout the

What is claimed is:

1. A compound having a structure according to Formula (I):



(I)

or a salt or solvate thereof, wherein

ring A is 5-membered heteroaryl comprising a sulfur atom, wherein the heteroaryl is optionally substituted with 1 or 2 substituents independently chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_{10}-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{12}, SR^{12}, $NR^{12}R^{13}$, $C(O)R^{14}$, $C(O)NR^{12}R^{13}$, $OC(O)NR^{12}R^{13}$, $C(O)OR^{12}$, $NR^{15}C(O)R^{14}$, $NR^{15}C(O)OR^{12}$, $NR^{15}C(O)NR^{12}R^{13}$, $NR^{15}C(S)NR^{12}R^{13}$, $NR^{15}S(O)_2R^{14}$, $S(O)_2NR^{12}R^{13}$, $S(O)R^{14}$ and $S(O)_2R^{14}$,

wherein

R^{12}, R^{13} and R^{15} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{12} and R^{13}, together with the nitrogen atom to which they are bound form a 5- to 7-membered heterocyclic ring; and

R^{14} is chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl;

C^a and C^b are carbon atoms, which are adjacent to each other and are part of ring A;

Z is a triazole optionally substituted with one or more substituents, wherein each substituent is independently chosen from alkyl, cycloalkyl, alkenyl, alkynyl, heteroalkyl, heterocycloalkyl, aryl, heteroaryl, $-R^a$, $-OR^a$, $-SR^a$, =O, $=NR^a$, $=N-OR^a$, $-NR^aR^b$, -halogen, $-SiR^aR^bR^c$, $-OC(O)R^a$, $-C(O)R^e$, $-C(O)OR^a$, $-C(O)NR^aR^b$, $-OC(O)NR^aR^b$, $-NR^cC(O)R^e$, -

$NR^cC(O)NR^aR^b$, $-NR^cC(S)NR^aR^b$, $-NR^cC(O)OR^a$, $-NR^cC(NR^aR^b)=NR^d$, $-S(O)R^e$, $-S(O)_2R^e$, $-S(O)_2NR^aR^b$, $-NR^cS(O)_2R^a$, -CN, $-NO_2$, $-N_3$, $-CH(Ph)_2$, fluoro(C_1-C_4)alkoxy, and fluoro(C_1- C_4)alkyl, in a number ranging from zero to the total number of open valences on the aromatic ring system, wherein R^a, R^b , R^c, R^d and R^e each independently refer to hydrogen, C_1-C_{24} alkyl, C_3-C_{10} cycloalkyl, C_1-C_{24} heteroalkyl, C_3-C_{10} heterocycloalkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl; and wherein where two R groups are attached to the same nitrogen atom, they can be combined with the nitrogen atom to form a 5-, 6- , or 7-membered ring;

R^5 is chosen from H, acyl, substituted or unsubstituted C_1-C_6 alkyl, and C_3-C_6 cycloalkyl;

W is chosen from C_1-C_4 alkylene, wherein the alkylene is optionally substituted with 1-4 substituents independently chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_6-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{42}, SR^{42}, $NR^{42}R^{43}$, $C(O)R^{44}$, $C(O)NR^{42}R^{43}$, $OC(O)NR^{42}R^{43}$, $C(O)OR^{42}$, $NR^{45}C(O)R^{44}$, $NR^{45}C(O)OR^{42}$, $NR^{45}C(O)NR^{42}R^{43}$, $NR^{45}C(S)NR^{42}R^{43}$, $NR^{45}S(O)_2R^{44}$, $S(O)_2NR^{42}R^{43}$, $S(O)R^{44}$, and $S(O)_2R^{44}$,

wherein

R^{42}, R^{43} and R^{45} are members independently chosen from H, acyl, C_1-C_6-alkyl, 2-to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{42} and R^{43}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{44} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl;

Cy is chosen from cycloalkyl, heterocycloalkyl, aryl, and heteroaryl, wherein the cycloalkyl, heterocycloalkyl, aryl or heteroaryl is optionally substituted with 1 - 6 substituents independently chosen from substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or

unsubstituted alkynyl, haloalkyl, substituted or unsubstituted heteroalkyl , substituted or unsubstituted cycloalkyl, substituted or unsubstituted heterocycloalkyl , substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, CN, halogen, OR^{52}, SR^{52}, $NR^{52}R^{53}$, $C(O)R^{54}$, $C(O)NR^{52}R^{53}$, $OC(O)NR^{52}R^{53}$, $C(O)OR^{52}$, $NR^{55}C(O)R^{54}$, $NR^{55}C(O)OR^{52}$, $NR^{55}C(O)NR^{52}R^{53}$, $NR^{55}C(S)NR^{52}R^{53}$, $NR^{55}S(O)_2R^{54}$, $S(O)_2NR^{52}R^{53}$, $S(O)R^{54}$ and $S(O)_2R^{54}$,

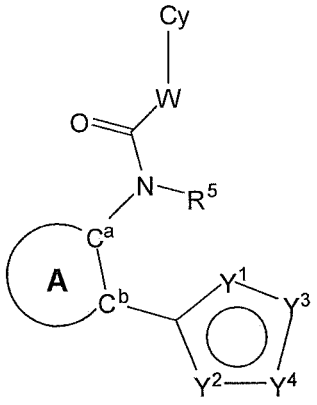
wherein

R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{52} and R^{53}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl

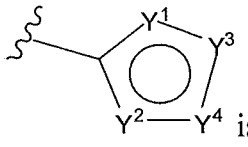
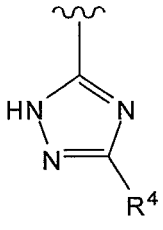
wherein the aryl groups are chosen from 5-, 6- or 7-membered, aromatic carbocyclic group having a single ring or being fused to other aromatic or non-aromatic rings; and wherein the heteroaryl groups are chosen from polyunsaturated, 5-, 6- or 7-membered aromatic moiety containing at least one heteroatom chosen from N, O, S, Si and B, wherein the nitrogen and sulphur atoms are optionally oxidized, and the nitrogen atom(s) are optionally quarternized, and wherein the heteroaryl groups can be a single ring or be fused to other aryl, heteroaryl, cycloalkyl or heterocycloalkyl rings.

2. The compound of claim 1, wherein the compound has a structure according to Formula (II):



(II)

or a salt or solvate thereof, wherein

the moiety:  is  or a tautomer or mixture of tautomers thereof,

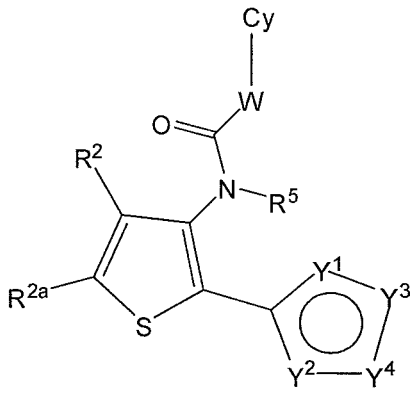
wherein

R^4 is chosen from H, C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, C_{1-4} haloalkyl, C_{3-6} cycloalkyl, 3 to 6-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{17}, SR^{17} and $NR^{17}R^{18}$,

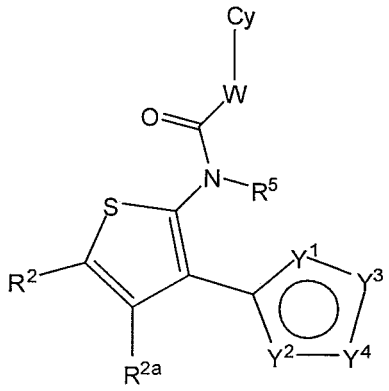
wherein

R^{17} and R^{18} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or wherein R^{17} and R^{18}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring.

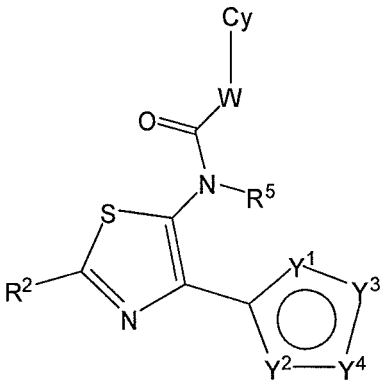
3. The compound of claim 1, wherein the compound has a structure according to Formula (IV), Formula (V), Formula (VI) or Formula (VII):



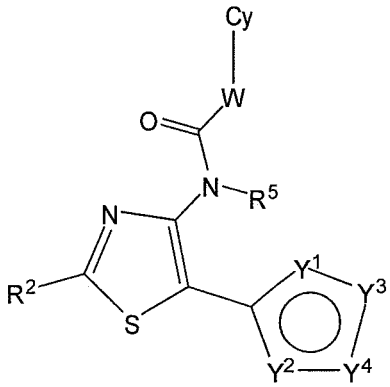
(IV);



(V);



(VI);

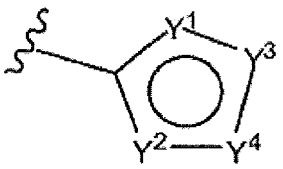


or **(VII)**

or a salt or solvate thereof,

wherein

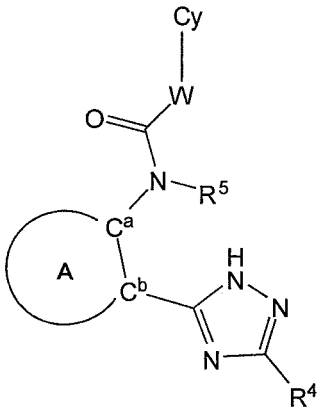
R^2 and R^{2a} are independently chosen from H, C_1-C_4-alkyl, C_2-C_4-alkenyl, C_2-C_4-alkynyl, C_1-C_4-haloalkyl, 2- to 4-membered heteroalkyl, C_3-C_6-cycloalkyl, 3- to 6-membered heterocycloalkyl, CN, and halogen



wherein the moiety: is a triazole optionally substituted with one or more substituents, wherein each substituent is independently chosen from alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, $-R^a$, $-OR^a$, $-SR^a$, =O, $=NR^a$, $=N-OR^a$, $-NR^aR^b$, -halogen, $-SiR^aR^bR^c$, $-OC(O)R^a$, $-C(O)R^e$, $-C(O)OR^a$, $-C(O)NR^aR^b$, $-OC(O)NR^aR^b$, $-NR^cC(O)R^e$, $-NR^cC(O)NR^aR^b$, $-NR^cC(S)NR^aR^b$, $-NR^cC(O)OR^a$, $-NR^cC(NR^aR^b)=NR^d$, $-S(O)R^e$, $-S(O)_2R^e$, $-S(O)_2NR^aR^b$, $-NR^cS(O)_2R^a$, -CN, $-NO_2$, $-N_3$, $-CH(Ph)_2$, fluoro(C_1-C_4)alkoxy, and fluoro(C_1-C_4)alkyl, in a number ranging from zero to the total number of open valences on the aromatic ring system, wherein R^a, R^b , R^c, R^d and R^e each independently refer to hydrogen, C_1-C_{24} alkyl, C_3-C_{10} cycloalkyl, C_1-C_{24} heteroalkyl, C_3-C_{10} heterocycloalkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl; and

wherein where two R groups are attached to the same nitrogen atom, they can be combined with the nitrogen atom to form a 5-, 6- , or 7-membered ring.

4. A compound having a structure according to Formula (VIII):



(VIII)

or a tautomer, mixture of tautomers, salt or solvate thereof,

wherein

ring A is 5- membered heteroaryl comprising a sulfur atom, wherein the heteroaryl is optionally substituted with 1 - 3 substituents independently chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_{10}-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{12}, SR^{12}, $NR^{12}R^{13}$, $C(O)R^{14}$, $C(O)NR^{12}R^{13}$, $OC(O)NR^{12}R^{13}$, $C(O)OR^{12}$, $NR^{15}C(O)R^{14}$, $NR^{15}C(O)OR^{12}$, $NR^{15}C(O)NR^{12}R^{13}$, $NR^{15}C(S)NR^{12}R^{13}$, $NR^{15}S(O)_2R^{14}$, $S(O)_2NR^{12}R^{13}$, $S(O)R^{14}$ and $S(O)_2R^{14}$,

wherein

R^{12}, R^{13} and R^{15} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{12} and R^{13}, together with the nitrogen atom to which they are bound form a 5- to 7-membered heterocyclic ring; and

R^{14} is chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl;

C^a and C^b are carbon atoms, which are adjacent to each other and, which are part of ring A;

R^4 is chosen from H, C_1-C_4 alkyl, C_2-C_4 alkenyl, C_2-C_4 alkynyl, C_1-C_4 haloalkyl, C_3-C_6 cycloalkyl, 3- to 6-membered heterocycloalkyl, aryl, and 5- or 6-membered heteroaryl, CN, halogen, OR^{17}, SR^{17} and $NR^{17}R^{18}$,

wherein

R^{17} and R^{18} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{17} and R^{18}, together with the nitrogen atom to which they are bound form a 5- to 7-membered heterocyclic ring;

R^5 is chosen from H, acyl, substituted or unsubstituted C_1-C_6 alkyl, and C_3-C_6 cycloalkyl;

W is chosen from C_1-C_4 alkylene, wherein the alkylene is optionally substituted with from 1 to 4 substituents chosen from alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, C_3-C_6-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{42}, SR^{42}, $NR^{42}R^{43}$, $C(O)R^{44}$, $C(O)NR^{42}R^{43}$, $OC(O)NR^{42}R^{43}$, $C(O)OR^{42}$, $NR^{45}C(O)R^{44}$, $NR^{45}C(O)OR^{42}$, $NR^{45}C(O)NR^{42}R^{43}$, $NR^{45}C(S)NR^{42}R^{43}$, $NR^{45}S(O)_2R^{44}$, $S(O)_2NR^{42}R^{43}$, $S(O)R^{44}$, and $S(O)_2R^{44}$,

wherein

R^{42}, R^{43} and R^{45} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{42} and R^{43}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{44} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl;

Cy is chosen from cycloalkyl, heterocycloalkyl, aryl, and heteroaryl, wherein the cycloalkyl, heterocycloalkyl, aryl or heteroaryl is optionally substituted with 1 - 6 substituents independently chosen from substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, haloalkyl, substituted or unsubstituted heteroalkyl , substituted or unsubstituted cycloalkyl, substituted or unsubstituted heterocycloalkyl , substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, CN, halogen, OR^{52}, SR^{52}, $NR^{52}R^{53}$, $C(O)R^{54}$, $C(O)NR^{52}R^{53}$, $OC(O)NR^{52}R^{53}$, $C(O)OR^{52}$, $NR^{55}C(O)R^{54}$, $NR^{55}C(O)OR^{52}$, $NR^{55}C(O)NR^{52}R^{53}$, $NR^{55}C(S)NR^{52}R^{53}$, $NR^{55}S(O)_2R^{54}$, $S(O)_2NR^{52}R^{53}$, $S(O)R^{54}$ and $S(O)_2R^{54}$,

wherein

R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{52} and R^{53}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

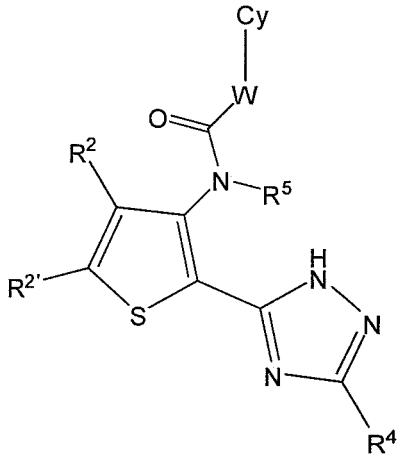
R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl,

wherein the aryl groups are chosen from 5-, 6- or 7-membered, aromatic carbocyclic group having a single ring or being fused to other aromatic or non-aromatic rings; and wherein the heteroaryl groups are chosen from polyunsaturated, 5-, 6- or 7-membered aromatic moiety containing at least one heteroatom chosen from N, O, S, Si

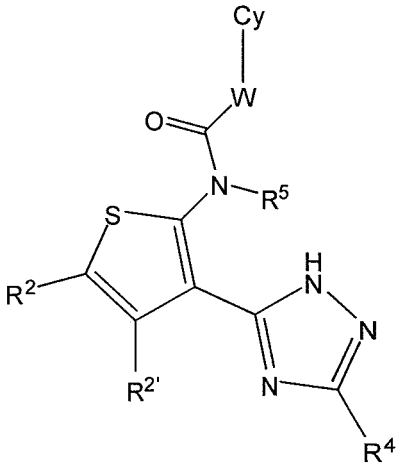
and B, wherein the nitrogen and sulphur atoms are optionally oxidized, and the nitrogen atom(s) are optionally quarternized, and wherein the heteroaryl groups can be a single ring or be fused to other aryl, heteroaryl, cycloalkyl or heterocycloalkyl rings.

5. The compound of claim 1 or claim 4, wherein ring A is chosen from thiophene and thiazole, wherein the thiophene or the thiazole is optionally substituted with 1 or 2 substituents chosen from C_1-C_4-alkyl, C_2-C_4-alkenyl, C_2-C_4-alkynyl, C_1-C_4-haloalkyl, 2- to 4-membered heteroalkyl, C_3-C_6-cycloalkyl, 3- to 6-membered heterocycloalkyl, CN, and halogen.

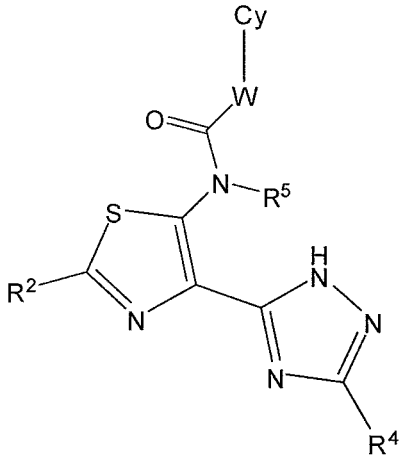
6. The compound of claim 4, wherein the compound has a structure according to Formula (IVa), Formula (Va), Formula (VIa) or Formula (VIIa):



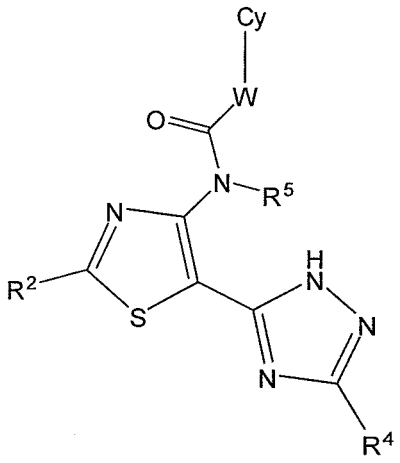
(IVa);



(Va);



(VIa);



and **(VIIa)**

or a salt or solvate thereof,

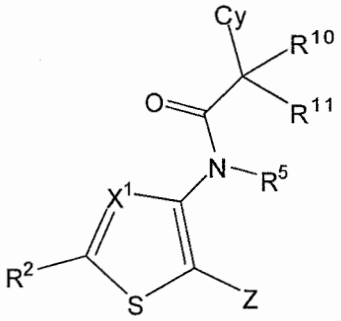
wherein

R^2 and $R^{2'}$ are independently chosen from H, C_1-C_4-alkyl, C_2-C_4-alkenyl, C_2-C_4-alkynyl, C_1-C_4-haloalkyl, 2- to 4-membered heteroalkyl, C_3-C_6-cycloalkyl, 3- to 6-membered heterocycloalkyl, CN, and halogen; and

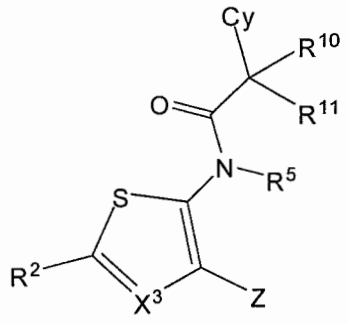
R^4 is chosen from H, methyl and cyclopropyl.

7. The compound of claim 1 or claim 4, wherein W is methylene ($-CH_2-$).

8. A compound having a structure according to Formula (X) or Formula (XI):



(X)



or **(XI)**

or a salt or solvate thereof,

wherein

X^1 and X^3 are independently chosen from N and CR^{2a};

R^2 and R^{2a} are independently chosen from H, C_1-C_4-alkyl, C_2-C_4-alkenyl, C_2-C_4-alkynyl, C_1-C_4-haloalkyl, 2- to 4-membered heteroalkyl, C_3-C_6-cycloalkyl, 3- to 6-membered heterocycloalkyl, CN, and halogen;

R^{10} and R^{11} are independently chosen from H, C_1-C_6-alkyl, C_2-C_6-alkenyl, C_2-C_6-alkynyl, C_1-C_6-haloalkyl, 2- to 6-membered heteroalkyl, C_3-C_6-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{42}, SR^{42}, $NR^{42}R^{43}$, $C(O)R^{44}$, $C(O)NR^{42}R^{43}$, $OC(O)NR^{42}R^{43}$, $C(O)OR^{42}$, $NR^{45}C(O)R^{44}$, $NR^{45}C(O)OR^{42}$, $NR^{45}C(O)NR^{42}R^{43}$, $NR^{45}C(S)NR^{42}R^{43}$, $NR^{45}S(O)_2R^{44}$, $S(O)_2NR^{42}R^{43}$, $S(O)R^{44}$ and $S(O)_2R^{44}$,

wherein

R^{42}, R^{43} and R^{45} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{42} and R^{43}, together with the nitrogen atom to which they are bound form a 5- to 7-membered heterocyclic ring; and

R^{44} is chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl;

R^5 is chosen from H and substituted or unsubstituted C_1-C_6 alkyl;

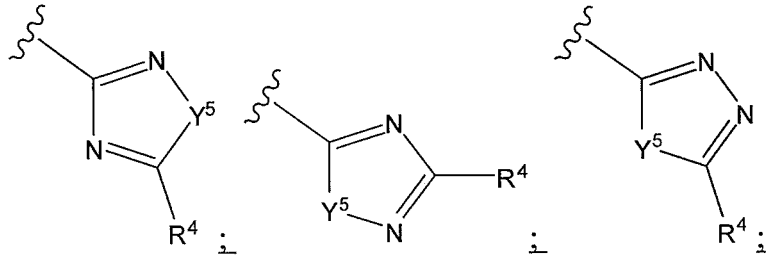
Cy is chosen from cycloalkyl, heterocycloalkyl, aryl, and heteroaryl, wherein the cycloalkyl, heterocycloalkyl, aryl or heteroaryl is optionally substituted with from 1 to 6 substituents independently chosen from C_1-C_6-alkyl, C_2-C_6-alkenyl, C_2-C_6-alkynyl, C_1-C_6-haloalkyl, 2- to 6-membered heteroalkyl, C_3-C_{12}-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{52}, SR^{52}, $NR^{52}R^{53}$, $C(O)R^{54}$, $C(O)NR^{52}R^{53}$, $OC(O)NR^{52}R^{53}$, $C(O)OR^{52}$, $NR^{55}C(O)R^{54}$, $NR^{55}C(O)OR^{52}$, $NR^{55}C(O)NR^{52}R^{53}$, $NR^{55}C(S)NR^{52}R^{53}$, $NR^{55}S(O)_2R^{54}$, $S(O)_2NR^{52}R^{53}$, $S(O)R^{54}$ and $S(O)_2R^{54}$,

wherein

R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{52} and R^{53}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl; and

Z is chosen from:



wherein

Y^5 is NR^3, wherein R^3 is chosen from H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, and 5- or 6-membered heteroaryl; and

R^4 is chosen from H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{17}, SR^{17} and $NR^{17}R^{18}$,

wherein

R^{17} and R^{18} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, or R^{17} and R^{18}, together with the nitrogen atom to which they are bound form a 5-to 7-membered heterocyclic ring,

wherein the aryl groups are chosen from 5-, 6- or 7-membered, aromatic carbocyclic group having a single ring or being fused to other aromatic or non-aromatic rings; and wherein the heteroaryl groups are chosen from polyunsaturated, 5-, 6- or 7-membered aromatic moiety containing at least one heteroatom chosen from N, O, S, Si and B, wherein the nitrogen and sulphur atoms are optionally oxidized, and the nitrogen atom(s) are optionally quarternized, and wherein the heteroaryl groups can be a single ring or be fused to other aryl, heteroaryl, cycloalkyl or heterocycloalkyl rings.

9. The compound of claim 8, wherein R^{10} and R^{11} are both H.

10. The compound of claim 8, wherein R^2 and R^{2a} are independently chosen from H, methyl, CF_3, CN, F, Cl and Br.

11. The compound of claim 1, claim 4, or claim 8, wherein R^5 is H.

12. The compound of claim 1, claim 4, or claim 8, wherein Cy is chosen from phenyl, naphthyl, quinoline, isoquinoline, quinoxaline, quinazoline, 3,4-dihydroquinolin-2-one, and 3,4-dihydro-1,6-naphthyridin-2-one, each optionally substituted with 1 - 6 substituents independently chosen from C_1-C_6-alkyl, C_2-C_6-alkenyl, C_2-C_6-alkynyl,C_1-C_6-haloalkyl, 2- to 6-membered heteroalkyl, C_3-C_{12}-cycloalkyl, 3- to 8-membered heterocycloalkyl, aryl, 5- or 6-membered heteroaryl, CN, halogen, OR^{52}, SR^{52}, $NR^{52}R^{53}$, $C(O)R^{54}$, $C(O)NR^{52}R^{53}$, $OC(O)NR^{52}R^{53}$, $C(O)OR^{52}$, $NR^{55}C(O)R^{54}$, $NR^{55}C(O)OR^{52}$,

$NR^{55}C(O)NR^{52}R^{53}$, $NR^{55}C(S)NR^{52}R^{53}$, $NR^{55}S(O)_2R^{54}$, $S(O)_2NR^{52}R^{53}$, $S(O)R^{54}$ and $S(O)_2R^{54}$,

wherein

R^{52}, R^{53} and R^{55} are independently chosen from H, acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl, wherein R^{52} and R^{53}, together with the nitrogen atom to which they are bound are optionally joined to form a 5- to 7-membered heterocyclic ring; and

R^{54} is independently chosen from acyl, C_1-C_6-alkyl, 2- to 6-membered heteroalkyl, aryl, 5- or 6-membered heteroaryl, C_3-C_8 cycloalkyl and 3- to 8-membered heterocycloalkyl.

13. A compound chosen from:

N-(2-(1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(naphthalen-l-yl)acetamide;
N-(2-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(naphthalen-l-yl)acetamide;
N-(2-(1,3-dimethyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(naphthalen-l-yl)acetamide;

2-(4-methoxyphenyl)-N-(2-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)acetamide;
N-(2-(1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;
N-(2-(1H-1,2,4-triazol-1-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;
2-(4-methoxyphenyl)-N-(4-methyl-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)acetamide;
N-(2-(2H-1,2,3-triazol-2-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;
N-(2-(3-cyclopropyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;
N-(2-(3-ethyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;
N-(2-(3-tert-butyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;
2-(4-methoxyphenyl)-N-(2-(3-(tetrahydrofuran-2-yl)-1H-1,2,4-triazol-5-yl)thiophen-3-yl)acetamide;
2-(4-methoxyphenyl)-N-(2-(3-(trifluoromethyl)-1H-1,2,4-triazol-5-yl)thiophen-3-yl)acetamide;

N-(4-methyl-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;
N-(4-methyl-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;
2-(4-methoxyphenyl)-N-(2-(3-(pyridin-4-yl)-1H-1,2,4-triazol-5-yl)thiophen-3-yl)acetamide;
N-(2-(3-amino-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;
N-(3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(isoquinolin-5-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;
N-(2-(1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)acetamide;
N-(4-methyl-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;
2-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-N-(2-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)acetamide;
N-(2-(1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(quinolin-5-yl)acetamide;
N-(4-methyl-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;
N-(4-methyl-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinoxalin-5-yl)acetamide;
N-(4-methyl-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinoxalin-5-yl)acetamide;
N-(4-methyl-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(4-(3-(piperidin-1-yl)propoxy)phenyl)acetamide;
N-(4-methyl-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(4-(3-(piperidin-1-yl)propoxy)phenyl)acetamide;
2-(4-(2-(1H-imidazol-1-yl)ethoxy)phenyl)-N-(4-methyl-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(isoquinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;
N-(4-cyano-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(isoquinolin-5-yl)acetamide;
N-(4-cyano-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;
N-(2-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-3-yl)-2-(4-(2-oxopyrrolidin-1-yl)phenyl)acetamide;
N-(4-methyl-3-(5-methyl-4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(4-(pyridin-4-yl)phenyl)acetamide;
N-(4-cyano-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoro-2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(7-fluoro-2-oxoquinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(7-chloro-2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6,7-difluoro-2-oxoquinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoro-2-oxoquinolin-1(2H)-yl)acetamide;
2-(isoquinolin-5-yl)-N-(2-(4-methylthiazol-2-yl)thiophen-3-yl)acetamide;2-(isoquinolin-5-yl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;
2-(2-oxo-3,4-dihydro-1,6-naphthyridin-1(2H)-yl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;
2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;
2-(isoquinolin-5-yl)-N-(2-(2-methoxythiazol-4-yl)thiophen-3-yl)acetamide;

N-(2-(2-chlorothiazol-4-yl)thiophen-3-yl)-2-(isoquinolin-5-yl)acetamide;
2-(isoquinolin-5-yl)-N-(2-(thiazol-2-yl)thiophen-3-yl)acetamide;
2-(isoquinolin-5-yl)-N-(2-(5-methylthiazol-2-yl)thiophen-3-yl)acetamide;
2-(4-(3-(piperidin-1-yl)propoxy)phenyl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;
N-(3-(benzo[d]thiazol-2-yl)-4-methylthiophen-2-yl)-2-(isoquinolin-5-yl)acetamide;
2-(4-methoxyphenyl)-N-(2-(oxazol-2-yl)thiophen-3-yl)acetamide;
2-(isoquinolin-5-yl)-N-(2-(oxazol-2-yl)thiophen-3-yl)acetamide;
2-(4-methoxyphenyl)-N-(3-(5-methyl-1,2,4-oxadiazol-3-yl)thiophen-2-yl)acetamide;
N-(2-(1,3,4-oxadiazol-2-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;
2-(4-methoxyphenyl)-N-(2-(5-methyl-1,3,4-oxadiazol-2-yl)thiophen-3-yl)acetamide;
N-(2-(5-isopropyl-1,3,4-oxadiazol-2-yl)thiophen-3-yl)-2-(4-methoxyphenyl)acetamide;
N-(2-(5-methyl-1,3,4-oxadiazol-2-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;
N-(4-methyl-3-(3-methyl-1,2,4-oxadiazol-5-yl)thiophen-2-yl)-2-(naphthalen-1-yl)acetamide;
N-(4-methyl-3-(3-methyl-1,2,4-oxadiazol-5-yl)thiophen-2-yl)-2-(4-(pyridin-4-yl)phenyl)acetamide;
N-(2-(3-methyl-1,2,4-oxadiazol-5-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;
N-(4-(1H-1,2,4-triazol-5-yl)thiazol-5-yl)-2-(isoquinolin-5-yl)acetamide;
2-(isoquinolin-5-yl)-N-(4-(1-methyl-1H-1,2,4-triazol-5-yl)thiazol-5-yl)acetamide;
2-(2-pyridyl)-3-(1-naphthylacetylamino)thiophene;
N-(2-(1H-pyrazol-1-yl)thiophen-3-yl)-2-(4-methoxyphenyl)-acetamide;
2-(4-methoxyphenyl)-N-(2-(4-methyl-1H-pyrazol-1-yl)thiophen-3-yl)acetamide;
N-(2-(1H-pyrazol-3-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;
N-(2-(1-methyl-1H-pyrazol-3-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;
N-(2-(5-methyl-1H-pyrazol-3-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;
N-(3-(2H-tetrazol-5-yl)thiophen-2-yl)-2-(4-methoxyphenyl)-acetamide;
2-(4-methoxyphenyl)-N-(3-(2-methyl-2H-tetrazol-5-yl)thiophen-2-yl)acetamide;

N-(3-(1-(methoxymethyl)-1H-tetrazol-5-yl)thiophen-2-yl)-2-(4-methoxyphenyl)acetamide;

N-(2-(1-methyl-1H-imidazol-2-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;
2-(4-methoxyphenyl)-N-(2-(1-methyl-1H-imidazol-4-yl)thiophen-3-yl)acetamide;
N-(2-(1H-imidazol-4-yl)thiophen-3-yl)-2-(4-methoxyphenyl)-acetamide;
N-(2-(1H-imidazol-4-yl)thiophen-3-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;
2-(4-methoxyphenyl)-N-(2-(2-methyl-1H-imidazol-4-yl)thiophen-3-yl)acetamide;
N-(2-(2-methyl-1H-imidazol-4-yl)thiophen-3-yl)-2-(2-oxo-3,4-dihydroquinolin-1(2H)-yl)acetamide;
N-(2-(1H-imidazol-1-yl)thiophen-3-yl)-2-(naphthalen-1-yl)acetamide;
2-(4-methoxyphenyl)-N-(2-(pyrazin-2-yl)thiophen-3-yl)acetamide;2-(isoquinolin-5-yl)-N-(4-(pyrazin-2-yl)thiazol-5-yl)acetamide;
N-(4,4'-bithiazol-5-yl)-2-(isoquinolin-5-yl)acetamide;
2-(4-methoxyphenyl)-N-(2-(2-oxooxazolidin-3-yl)thiophen-3-yl)acetamide;
2-(7-bromo-2-oxo-3,4-dihydroquinolin-1(2H)-yl)-N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)acetamide;
N-(4-bromo-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(quinolin-4-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(8-fluoroisoquinolin-5-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-1,6-naphthyridin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(8-fluoroquinolin-5-yl)acetamide;
N-(4-bromo-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(7-(trifluoromethyl)quinolin-5-yl)acetamide;
N-(4-bromo-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(5-(trifluoromethyl)quinolin-7-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,6-naphthyridin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-chloro-2-oxoquinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(5-fluoro-2-oxoquinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(3-fluoroquinolin-8-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethoxy)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(isoquinolin-4-yl)acetamide;
N-(5-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(3-fluoroquinolin-5-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethoxy)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(7-cyano-2-oxoquinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(isoquinolin-8-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-cyano-2-oxoquinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(quinolin-8-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-5-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)-3,4-dihydroquinolin-1(2H)-yl)acetamide;
N-(4-cyano-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;

N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-(trifluoromethyl)quinolin-7-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(7-fluoroquinolin-5-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(3-(trifluoromethyl)quinolin-5-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoroquinolin-5-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoroquinolin-7-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-ethynyl-2-oxoquinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethyl)-1,6-naphthyridin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(5-oxopyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(3-(trifluoromethyl)quinolin-8-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-methylimidazo[2,1-b]thiazol-3-yl)acetamide;
2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;
N-(4-cyano-3-(pyrazin-2-yl)thiophen-2-yl)-2-(quinolin-5-yl)acetamide;
2-(2-oxo-1,6-naphthyridin-1(2H)-yl)-N-(2-(thiazol-4-yl)thiophen-3-yl)acetamide;
N-(4-bromo-3-(4H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(3,3-difluoro-2-oxoindolin-1-yl)acetamide;
2-(benzo[d]thiazol-7-yl)-N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-cyano-3-(oxazol-2-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(3-(1,2,4-oxadiazol-3-yl)thiophen-2-yl)-2-(6,7-difluoro-2-oxoquinolin-1(2H)-yl)acetamide;
N-(4-cyano-3-(thiazol-2-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(5-oxo-2-(trifluoromethyl)pyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;
N-(4-cyano-3-(thiazol-4-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(imidazo[1,2-a]pyridin-5-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(7-fluoro-2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-cyano-3-(thiazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-cyano-3-(1H-1,2,3-triazol-1-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(3-(1H-benzo[d][1,2,3]triazol-1-yl)-4-cyanothiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoroisoquinolin-5-yl)acetamide;
N-(4-bromo-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(6-fluoroisoquinolin-7-yl)acetamide;
N-(4-cyano-3-(2H-1,2,3-triazol-2-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-cyano-3-(thiazol-2-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(5-oxopyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;
N-(4-bromo-3-(oxazol-2-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-bromo-3-(thiazol-2-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-chloro-3-(thiazol-2-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(3-(benzo[d]thiazol-2-yl)-4-cyanothiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-chloro-3-(3-methyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1-(3-(dimethylamino)propyl)-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1-(3-(4-methylpiperazin-l-yl)propyl)-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-chloro-3-(3-ethyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1-(2-(dimethylamino)ethyl)-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-N-(2-(dimethylamino)ethyl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-cyano-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(5-oxopyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;
N-(4-chloro-3-(1-(3-morpholinopropyl)-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;

N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)-N-(3-(pyrrolidin-1-yl)propyl)acetamide;
N-(4-chloro-3-(1-(3-(pyrrolidin-1-yl)propyl)-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(8-(trifluoromethyl)quinolin-5-yl)acetamide;
N-(4-bromo-3-(2H-1,2,3-triazol-2-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)quinolin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-6-(trifluoromethyl)-1,5-naphthyridin-1(2H)-yl)acetamide;
N-(4-chloro-3-(3-isopropyl-1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
2-(6-bromo-2-oxoquinolin-1(2H)-yl)-N-(4-bromo-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)acetamide;
N-(4-cyano-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-3,4-dihydro-1,5-naphthyridin-1(2H)-yl)acetamide;
2-(6-bromo-2-oxoquinolin-1(2H)-yl)-N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(6-cyano-2-oxoquinolin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-5-yl)thiophen-2-yl)-2-(5-oxo-2-(trifluoromethyl)pyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;
N-(4-chloro-3-(1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethyl)-1,6-naphthyridin-1(2H)-yl)acetamide;
N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(5-oxo-2-(trifluoromethyl)pyrazolo[1,5-a]pyrimidin-4(5H)-yl)acetamide;and
N-(4-chloro-3-(1-methyl-1H-1,2,4-triazol-3-yl)thiophen-2-yl)-2-(2-oxo-7-(trifluoromethyl)-1,6-naphthyridin-1(2H)-yl)acetamide,

or a pharmaceutically acceptable salt thereof.

14. A pharmaceutical composition comprising a compound according to claim 1, claim 4, claim 8 or claim 13 and a pharmaceutically acceptable carrier.

15. Use of a pharmaceutically effective amount of a compound according to claim 1, claim 4, claim 8, or claim 13 in the manufacture of a medicament for treating a neurodegenerative disease.

16. The use of claim 15, wherein the neurodegenerative disease is chosen from Alzheimer's disease, diffuse Lewy body type of Alzheimer's disease, Parkinson's disease, Down syndrome, dementia, mild cognitive impairment (MCI), amyotrophic lateral sclerosis (ALS), traumatic brain injuries, cerebral ischemic brain damage, ischemic or hemorrhaging stroke, hereditary cerebral hemorrhage with amyloidosis of the dutch-type and cerebral amyloid angiopathy.

17. The use of claim 15, wherein said neurodegenerative disease is Alzheimer's disease, diffuse Lewy body type of Alzheimer's disease, or mild cognitive impairment (MCI).

18. Use of a compound in an *in vitro* assay measuring kinase activity, said compound being a compound according to claim 1, claim 4, claim 8, or claim 13.

19. The use according to claim 18, wherein the kinase is chosen from JNK, p38 and MAPK.

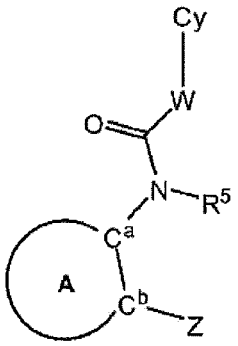
20. The use according to claim 19, wherein JNK is chosen from JNK1, JNK2 and JNK3.

21. The use according to claim 18, wherein the assay is a FRET assay.

22. The use of a compound according to claim 18, wherein the method is used for identifying candidate compounds that are capable of inhibiting JNK.

23. An *in vitro* method for measuring phosphorpylated kinase substrate comprising:

(i) creating a mixture comprising a kinase and a compound according to claim 1, claim 4, claim 8, or claim 13:



(I)

(ii) adding a kinase substrate and ATP or a derivative thereof to the mixture; and

(iii) measuring an amount of phosphorylated kinase substrate.

24. The method of claim 23, wherein the kinase is chosen from JNK, p38 and MAPK.

25. The method of claim 24, wherein JNK is chosen from JNK1, JNK2 and JNK3.

26. The method of claim 23, wherein the method is used for identifying candidate compounds that are capable of inhibiting JNK.

27. An *in vitro* method comprising contacting a cell with a compound according to claim 1, claim 4, claim 8, or claim 13.

28. The method of claim 27, further comprising measuring phosphorylated kinase substrate.