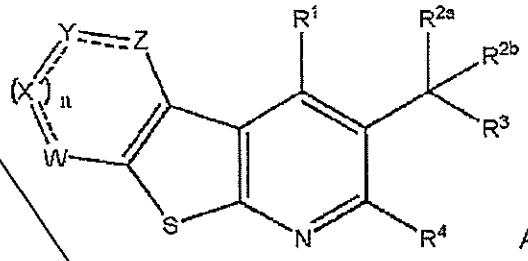
CLAIMS

1. A compound according to formula (A-1),



A-1

wherein,

- R^1 is independently selected from alkyl; alkenyl; alkynyl; cycloalkyl; cycloalkenyl; cycloalkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; or heterocycle-alkynyl;

* wherein in the cycloalkyl, cycloalkenyl, cycloalkynyl, alkyl, alkenyl or alkynyl moiety of said alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively;

* and wherein said alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl, can be unsubstituted or substituted with one or more Z^1;

* and wherein a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl can be oxidised to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each of R^{2a} and R^{2b} is independently selected from hydrogen; cyano; alkyl; alkenyl; alkynyl; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; or heterocycle-alkynyl or when R^{2a} and R^{2b} are taken together to form vinyl or vinylalkyl;

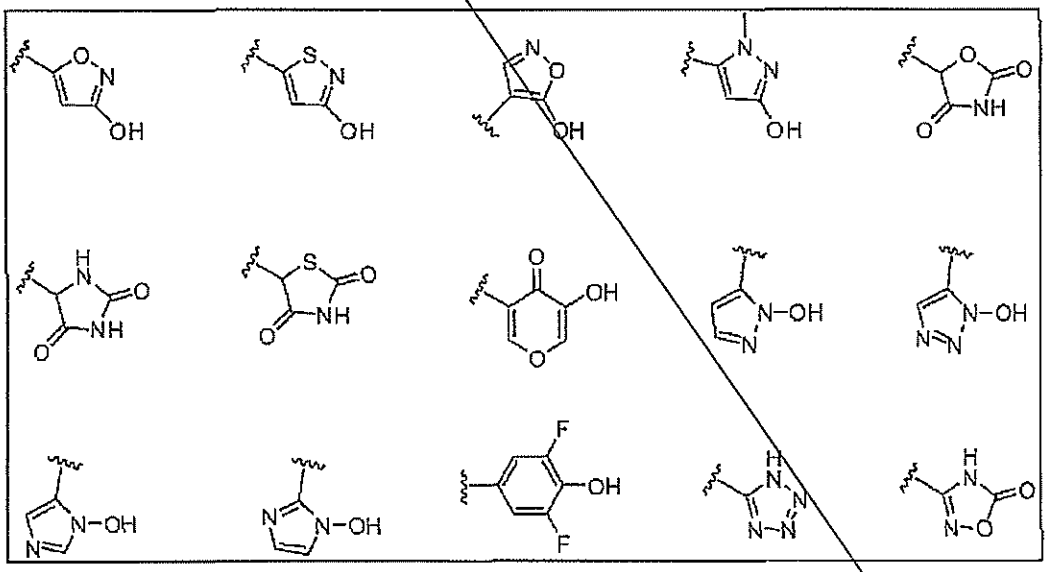
* wherein in the alkyl, alkenyl or alkynyl moiety of said alkyl, alkenyl,

alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, heterocycle-alkynyl or vinylalkyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively;

* and wherein said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, heterocycle-alkynyl, vinyl or vinylalkyl, can be unsubstituted or substituted with one or more Z^1;

* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, heterocycle-alkynyl, or vinylalkyl can oxidised to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$.

- R^3 is independently selected from –COOH; -CN; $-CONH_2$; $-COOZ^2$; -C(O)NHCN; -C(O)NHOH; $-S(O)_2OH$; $-S(O)_2NHZ^4$; $-P(O)(OH)NH_2$; -P(O)(OH)O-alkyl; $-P(O)(O\text{-alkyl})_2$; $-P(O)OH_2$; $-NHC(O)NHS(O)_2$-aryl; $-NHC(O)NHS(O)_2$-heteroaryl; $-C(O)NHS(O)_2$-aryl; $-C(O)NHS(O)_2$-heteroaryl; $-S(O)_2NHS(O)_2$-aryl; $-S(O)_2NHS(O)_2$-heteroaryl; or from the following structures:



or

- R^{2a} and R^3 or R^{2b} and R^3 can be taken together to form a 4, 5, 6, or 7-membered lactone;

- R^4 is independently selected from hydrogen; halogen; cyano; hydroxyl; alkyl; alkenyl, alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; heterocycle-alkynyl;

* wherein in the alkyl, alkenyl or alkynyl moiety of said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively;

* and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl can be unsubstituted or substituted with one or more Z^1;

* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each dotted line represents an optional double bond whereby maximally two non-adjacent dotted lines can form a double bond;

- W, X, Y, and Z are independently selected from CR', CR'R", N, NR"', O and S depending on whether they are adjacent to a double or a single bond, wherein R', R" and R"' are independently selected from the group consisting of hydrogen; halogen; $-OZ^2$; $-SZ^2$; $-S(O)Z^3$; $-S(O)_2Z^3$; $-SO_2NZ^4Z^5$; trifluoromethyl; nitro; $-NZ^4Z^5$; $-NZ^2S(O)_2Z^3$; cyano; $-COOZ^2$; $-C(O)NZ^4Z^5$; $-C(O)Z^3$; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; heterocycle-alkynyl;

* and wherein said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, optionally includes one or more heteroatoms, said heteroatoms being selected from the atoms O, S and N;

* and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2;

* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- R' or R" on the same carbon atom can be taken together to form a 5, 6 or 7-membered spiro-cycloalkyl, spiro-cycloalkenyl, spiro-cycloalkynyl or a saturated or unsaturated spiro-heterocycle together with the 5, 6 or 7-membered unsaturated ring they are attached to; or

- an R' and another R', R" or R" on adjacent atoms can be taken together to form a 5, 6 or 7-membered cycloalkyl, cycloalkenyl, cycloalkynyl, aryl or heterocycle fused to the 5, 6 or 7-membered unsaturated ring they are attached to;

- each Z^1 is independently selected from the group consisting of hydrogen; halogen; $-OZ^2$; $-SZ^2$; $-S(O)Z^3$; $-S(O)_2Z^3$; $-SO_2NZ^4Z^5$; trifluoromethyl; nitro; $-NZ^4Z^5$; $-NZ^2S(O)_2Z^3$ cyano; $-COOZ^2$; $-C(O)NZ^4Z^5$; $-C(O)Z^3$; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; heterocycle-alkynyl;

* wherein in the alkyl, alkenyl or alkynyl moiety of said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively;

* and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl can be unsubstituted or substituted with one or more Z^{11};

* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$; or

- two Z^1 on the same carbon atom can be taken together to form a 5, 6 or 7-membered spiro-cycloalkyl, spiro-cycloalkenyl, spiro-cycloalkynyl, or a saturated or unsaturated spiro-heterocycle together with the (4, 5, 6, 7 or 8-membered unsaturated) ring they are attached to; or

- two Z^1 on adjacent atoms can be taken together to form a 5, 6 or 7-membered cycloalkyl, cycloalkenyl, cycloalkynyl, aryl or heterocycle fused to the (4, 5, 6, 7, or 8-membered unsaturated) ring they are attached to;

- each Z^{11} is independently selected from the group consisting of hydrogen; halogen; $-OZ^{12}$; $-SZ^{12}$; $-S(O)Z^{13}$; $-S(O)_2Z^{13}$; $-SO_2NZ^{14}Z^{15}$; trifluoromethyl; nitro; $-NZ^{14}Z^{15}$; $-NZ^{12}S(O)_2Z^{13}$; cyano; $-COOZ^{12}$; $-C(O)NZ^{14}Z^{15}$; $-C(O)Z^{13}$; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; heterocycle-alkynyl;

- each Z^2 is independently selected from hydrogen; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein said alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl optionally include one or more heteroatoms, said heteroatom selected from O, S and N; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each Z^{12} is independently selected from hydrogen; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein in said alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl,

arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each Z^3 is independently selected from hydroxyl; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl optionally includes one or more heteroatoms, said heteroatom selected from O, S and N; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each Z^{13} is independently selected from hydroxyl; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein in said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -Oalkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each Z^4 and Z^5 is independently selected from hydrogen; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl optionally includes one

or more heteroatoms, said heteroatom selected from O, S and N; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$; and wherein Z^4 and Z^5 can be taken together in order to form a (5-, 6-, or 7-membered) heterocycle which can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or $-NH_2$;

- each Z^{14} and Z^{15} is independently selected from hydrogen; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein in said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$; and wherein Z^4 and Z^5, and Z^{14} and Z^{15} respectively can be taken together in order to form a (5-, 6-, or 7-membered) heterocycle which can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or $-NH_2$; and

- n is selected from 0; 1; or 2.

and isomers (in particular stereo-isomers or tautomers), solvates, hydrates or salts (in particular pharmaceutically acceptable salts) thereof,

provided that the compounds are not selected from

* [2-(2-methoxy-5-methylphenyl)-4-phenyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2,7-dimethyl-4-(2-furanyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [4-(2-thienyl)-2-methyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2,7-dimethyl-4-phenyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2,7-dimethyl-4-(*m*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2-methyl-4-(*m*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [4-(4-chlorophenyl)-2-methyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [4-(4-chlorophenyl)-2-methyl-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [4-(p-anisyl)-2-methyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridine-3-yl]acetic acid;
* Ethyl [4-phenyl-2-(2-thienyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetate;
* Ethyl [2-(2-thienyl)-4-(*p*-tolyl)-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetate;
* [2-methyl-4-(*p*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [4-phenyl-2-(2-thienyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2-(4-ethoxyphenyl)-4-(*p*-tolyl)-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2-(4-iodophenyl)-4-phenyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yllacetic acid;
* [2-(4-propoxyphenyl)-4-*p*-tolyl-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2-(3,4-dipropoxyphenyl)-4-*p*-tolyl-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yllacetic acid;
* [2-(2-thienyl)-4-(*p*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-

3-yl]acetic acid;

* [2-(4-pentyloxyphenyl)-4-(*p*-tolyl)-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetic acid;

* Ethyl [4-(*p*-tolyl)-2-(2-thienyl)-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetate;

* Ethyl [4-phenyl-2-(2-thienyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetate;

* [4-(3-fluorophenyl)-2-methyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;

* [2-methyl-4-(*p*-tolyl)-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetic acid;

* [2-methyl-4-phenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;

* [2-(2-thienyl)-4-(*p*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;

* [2-methyl-4-(*p*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid.

2. The compound according to claim 1,

wherein,

- each Z^1 is independently selected from the group consisting of hydrogen; halogen; $-OZ^2$; $-SZ^2$; $-S(O)Z^3$; $-S(O)_2Z^3$; $-SO_2NZ^4Z^5$; trifluoromethyl; nitro; $-NZ^4Z^5$; $-NZ^2S(O)_2Z^3$ cyano; $-COOZ^2$; $-C(O)NZ^4Z^5$; $-C(O)Z^3$; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; heterocycle-alkynyl;

* wherein said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, optionally includes one or more heteroatoms, said heteroatoms being selected from the atoms O, S and N;

* wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or $-NH_2$;

* and wherein optionally a carbon atom or heteroatom of said alkyl,

alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$; or

- two Z^1 on the same carbon atom can be taken together to form a spiro-carbocycle or a saturated or unsaturated spiro-heterocycle together with the 4, 5, 6, 7 or 8-membered unsaturated ring they are attached to; or
- two Z^1 on adjacent atoms can be taken together to form a fused ring system together with the 4, 5, 6, 7 or 8-membered unsaturated ring they are attached to.

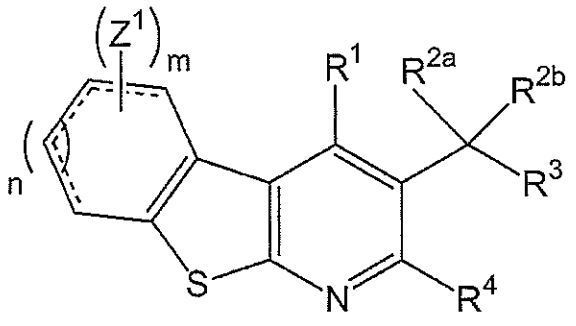
3. The compound according to claim 1 or 2, wherein R^3 is –COOH.

4. The compound according to claims 1 to 3, wherein R^1 is selected from aryl or heteroaryl, wherein said aryl or heteroaryl can be unsubstituted or substituted with one or more Z^1.

5. The compound according to any of claims 1 to 4, wherein one of R^{2a} and R^{2b} is hydrogen, and the other of R^{2a} and R^{2b} is selected from cyano; alkyl; alkenyl; alkynyl; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; or heterocycle-alkynyl;

* wherein said alkyl, alkenyl, alkynyl, arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; or heterocycle-alkynyl optionally includes one or more heteroatoms, said heteroatoms in the alkyl, alkenyl or alkynyl moiety being selected from the atoms O, S and N;
* wherein said alkyl, alkenyl, alkynyl, arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; or heterocycle-alkynyl vinyl or vinylalkyl, can be unsubstituted or substituted with one or more Z^1;
* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$.

6. The compound according to formula (B),



(B)

wherein,

- each dotted line represent an optional double bond whereby maximally two non-adjacent dotted lines can form a double bond;
- each of R^1, R^{2a}, R^{2b}, R^3, R^4 and Z^1 are as in claims 1 to 4;
- n is selected from 0; 1; or 2; and
- m is selected from 0; 1; 2; 3; 4; 5 or 6.

7. The compounds according to any of claims 1 to 6 selected from the list of:

- Methyl [2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] acetate;
- Methyl [2-methyl-4-phenyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] acetate;
- Methyl [2-methyl-4-(4-chlorophenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(4-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(4-ethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-p-tolylbenzo[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-phenyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]acetate;
- Methyl [2-methyl-4-(2-furyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(2-thienyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-

b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(p-anisyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(tert-butyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(p-tolyl)-5,8-dihydro-6H-7-oxa-9-thia-1-aza-fluoren-3-yl]acetate;

- Methyl [7-methyl-2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]acetate;

Methyl [7-benzyl-2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]acetate;

Methyl [2-methyl-4-(p-tolyl)-5H-cyclohepta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(2-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(3-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(3,4-dichlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(3-trifluoromethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(4-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(m-anisyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yllacetate;

- Methyl [2-methyl-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(benzo[d][1,3]dioxol-5-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(4-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(4-ethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(pyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;

- Methyl [2-methyl-4-(4-trifluoromethoxyphenyl)-5,6,7,8-

tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(2-methyl-1H-indol-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(2-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(benzofuran-2-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(2-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Ethyl [7-benzyl-2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoate;
- Ethyl 2-[2,7-dimethyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoate;
- Ethyl 2-[2-methyl-4-(p-tolyl)-spiro[[1,3]dioxolane-2,7]-5,6,7,8-tetrahydro-9-thia-1-aza-7-oxo-fluoren-3-yl]pentanoate;
- Ethyl [2-methyl-4-(p-toly1)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl 2[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] pentanoate;
- Methyl 2[2-methyl-4-phenyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] pentanoate;
- Methyl 2[2-methyl-4-(4-chlorophenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b] pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(4-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(4-ethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-p-tolylbenzo[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-4-O-methoxymethylether-butanoate;
- Methyl 2[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-4-O-methoxy-butanoate;

Methyl 2[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acrylate;

- Methyl 2[2-Methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-2-cyclopentylacetate;

- Methyl 2[2-Methyl-4-(p-tolyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-3-methoxypropanoate;

- Methyl 2[2-phenyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(2-furyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(2-thienyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(p-anisyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(tert-butyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5,8-dihydro-6H-7-oxa-9-thia-1-aza-fluoren-3-yl]pentanoate;

- Methyl 2-[2-methyl-4-(p-tolyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-3-benzyloxypropanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-3-phenylpropanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5H-cyclohepta[4,5]thieno[2,3-b]pyridin-3-yllpentanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4-methylpentanoate;

- Methyl 2-[2-methyl-4-(2-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(3-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(3,4-dichlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yllpentanoate;

- Methyl 2[2-methyl-4-(3-trifluoromethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(m-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-

yl]pentanoate;
- Methyl 2-[2-methyl-4-(4-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2-[2-methyl-4-(m-anisyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2-[2-methyl-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(benzo[d][1,3]dioxol-5-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-6,6,6-trifluorohexanoate;
- Methyl 2-[2-methyl-4-(4-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(4-ethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(pyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(4-trifluoromethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(2-methyl-1-propyl-1H-indol-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2-[2-methyl-4-(2-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(benzofuran-2-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4-phenylbutanoate;
- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-3-methylbutanoate;
- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-3-methylpentanoate;
- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-5,5,5-trifluoropentanoate;
- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-pent-4-yn-oate;

- Methyl 2[2-methyl-4-(2-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4,4-dimethylpentanoate;
- Ethyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-3-cyclopropylpropanoate;
- 2[2-Methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- [2-Methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetic acid;
- [2-Methyl-4-phenyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetic acid;
- [2-Methyl-4-phenyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(4-chlorophenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- (2S)-[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- (2R)-[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(4-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(4-ethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] pentanoic acid;
- 2[2-Methyl-4-p-tolylbenzo[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 3[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]dihydrofuran-- 2(3H)-one;
- 2[2-methyl-4-(p-tolyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-4-O-methoxy-butanoic acid;
- 2[2-Methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-2-cyclopentylacetic acid;
- 2[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yllacrylic acid;

- 2[2-Methyl-4-(p-tolyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-3-methoxypropanoic acid;
- 2[2-phenyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-methyl-6-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3b]pyridin-3-yl] pentanoic acid;
- 2[2-methyl-7-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] pentanoic acid;
- 2[2-Methyl-4-(2-furyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(2-thienyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-anisyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(tert-butyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,8-dihydro-6H-7-oxa-9-thia-1-aza-fluoren-3-yl]pentanoic acid;
- 2[2-Methyl-4-(4-methylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-3-phenylpropanoic acid;
- 2-[2-Methyl-4-(p-tolyl)-5H-cyclohepta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4-methylpentanoic acid;
- 2[2-Methyl-4-(2-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(3-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(3,4-dichlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(3-trifluoromethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yllpentanoic acid;
- 2[2-Methyl-4-(m-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2-[2-Methyl-4-(4-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-

3-yl]pentanoic acid;

- 2[2-Methyl-4-(m-anisyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(benzo[d][1,3]dioxol-5-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-6,6,6-trifluorohexanoic acid;
- 2[2-Methyl-4-(4-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(4-ethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(pyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(4-trifluoromethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(2-methyl-1-propyl-1H-indol-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(2-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(benzofuran-2-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4-phenylbutanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-3-methylbutanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]- 3-methylpentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-5,5,5-trifluoropentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-pent-4-yn-oic acid;
- 2[2-methyl-4-(2-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yllpentanoic acid;

- 2[2-Methyl-4-(2-hydroxy-4-methylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate ammonium salt;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4,4-dimethylpentanoic acid;
- 2[7-Benzyl-2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoic acid;
- 2-[2,7-Dimethyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-3-cyclopropylpropanoic acid;
- N-cyano-2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanamide;
- 2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanamide;
- Methyl 2[2-methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- Methyl 2[2-methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-ethoxyacetate;
- 2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- 2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-ethoxyacetic acid;
- Methyl 2[2-Methyl-4-(pyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-Methyl-4-(pyridin-3-yl)-5 6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- 2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanenitrile;
- 2-Methyl-4-(p-tolyl)-3-[1-(1H-tetrazol-5-yl)butyl]-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridine;
- Methyl 2-[2-methyl-4-(1-methyl-1H-pyrazol-4-y1)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2-[2-methyl-4-(1-methyl-1H-pyrazol-4-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- 3-(1-[2-methyl-6-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-

b]pyridin-3-yl]butyl)-1,2,4-oxadiazol-5(4H)-one;

- Ethyl [2-ethyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Ethyl 2[2-ethyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- 2[2-ethyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 5[1-(2-ethyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl)butyl]thiazolidine-2,4-dione;
- Ethyl (4-iodo-2-methyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl)carboxylate;
- Methyl 2-[2-methyl-4-(6-methylpyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-methyl-4-(6-methylpyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- Methyl 2[2-methyl-4-(benzo[d]thiazol-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-methyl-4-(benzo[d]thiazol-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- Methyl 2[2-methyl-4-(2,3-dihydropyrano[4,3,2-de]quinolin-7-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-methyl-4-(2,3-dihydropyrano[4,3,2-de]quinolin-7-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- Methyl 2[2-methyl-4-(8-fluoro-5-methylchroman-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-methyl-4-(8-fluoro-5-methylchroman-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- Methyl 2[2-methyl-4-(5-chlorochroman-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-methyl-4-(5-chlorochroman-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- Dimethyl [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]methylphosphonate;
- Dimethyl [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]butylphosphonate;

- 1-(2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl)butylphosphonic acid;
- Methyl 2[2-methyl-4-(phenylthio)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-methyl-4-(phenylthio)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- Ethyl [7-acetyl-2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoate;
- [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoate ammonium salt;
- [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,6-diaza-fluoren-3-yl] pentanoate ammonium salt;
- [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,8-diaza-fluoren-3-yl]pentanoate ammonium salt;
- Methyl 2-[2-methyl-4-(phenyloxy)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-methyl-4-(phenyloxy)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- 2[2-methyl-4-(phenylamino)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid.
- [2-hydroxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetic acid;
- [2-methoxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yllacetic acid;
- [2-methoxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl 2-[2-methoxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3b]pyridin-3-yl]pentanoate;
- 2-[2-methoxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid; and
2-[2-hydroxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid.

8. The compounds according to any of claims 1 to 7 for use as a medicine.

9. The compounds according to claim 8, for use as a medicine for the prevention or treatment of a viral infection in an animal.

10. The compounds according to claim 9, wherein said viral infection is an infection with HIV.

11. The compounds according to claims 9 or 10, wherein the animal is a mammal or a human.

12. The use of compounds according to claims 1 to 7 for the manufacture of a medicament wherein the medicament is for the prevention or treatment of a viral infection in an animal.

13. The use according to claim 12, wherein the viral infection is an infection with HIV.

14. The use according to claim 12, wherein the animal is a mammal or a human.

15. A method for the preparation of the compounds according to any of claims 1 to 7 comprising the steps of:

- reacting a beta-ketonitile of formula R^1-$C(O)CH_2CN$ with a compound of formula $R^6C(O)CH_2R^5$ in the presence of sulfur and a strong base in a polar protic solvent or in a polar aprotic solvent at a temperature between 60°C to 100°C;
- reacting the obtained 2-aminothiophene reaction product of the previous step with a compound of formula $R^4C(O)CH_2CH_2R^3$ in the presence of trimethyl chlorosilane in a polar aprotic solvent at a temperature between 50°C and 200°C;
- optionally, reacting the compound obtained in the previous step with a compound having a structure of the formula R^{2a}-leaving group and/or R^{2b}-leaving group through a nucleophilic substitution.

16. A method for the preparation of the compounds according to any of claims 1 to 7 comprising the steps of:

- reacting a cyanoacetate derivative of formula $ROC(O)CH_2CN$ with a compound of formula $R^6C(O)CH_2R^5$ in the presence of sulfur and a strong base in a polar protic solvent or in a polar aprotic solvent at a temperature between 20°C to 100°C;
- reacting the previously obtained 2-amino-4,5-disubstituted-thiophene-3-carboxylate derivative with a compound of formula $R^4C(=CHCOOZ^2)0Z^2$ in an apolar aprotic solvent at a temperature between 80°C and 140°C to obtain an enamine intermediate which undergoes an intramolecular ring cyclization in the presence of a strong base in a polar protic solvent to provide a 5,6-substituted-4-hydroxythieno[2,3-b]pyridine-5-carboxylate derivative;
- the 4-hydroxyl function can then be converted to an halogen with standard procedures know to the skilled in the art;
- the ester function can then be reduced to a primary alcohol which is immediately oxidized into an aldehyde following standard procedures known to the skilled in the art;
- the 5,6-substituted-4-halogenothieno[2,3-b]pyridine-5-carbaldehyde derivative is then converted into a 2-(5,6-substituted-4-halogenothieno[2,3-b]pyridin-5-yl)-2-hydroxyacetate derivative using an addition of trimethylsilylcyanide in the presence of zinc iodide followed by hydrolysis in acidic conditions;
- the R^{2a} and or R^{2b} residues can then be introduced following procedures known to the skilled in the art;
- substituting the 4-halogen atom from the previously obtained compound in a specific manner (amination, alkylation, arylation) with suitable chemical reagents to obtain the desired compounds;
- hydrolyzing the ester compounds obtained in the previous step to obtain the desired free carboxylic acid derivatives.

17. A pharmaceutical composition comprising the compounds according to any of claims 1 to 7 as an active ingredient in admixture with at least a pharmaceutically acceptable carrier.

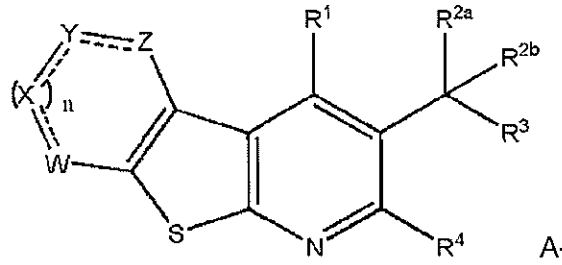
18. The pharmaceutical composition according to claim 17, further comprising a compound with antiviral activity selected from reverse transcriptase inhibitors,

protease inhibitors, integrase inhibitors, entry inhibitors and compounds with other mechanisms of action.

5

CLAIMS

1. A compound according to formula (A-1),



A-1

wherein,

- R^1 is independently selected from alkyl; alkenyl; alkynyl; cycloalkyl; cycloalkenyl; cycloalkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; or heterocycle-alkynyl;

* wherein in the cycloalkyl, cycloalkenyl, cycloalkynyl, alkyl, alkenyl or alkynyl moiety of said alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively;

* and wherein said alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl, can be unsubstituted or substituted with one or more Z^1;

* and wherein a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl can be oxidised to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each of R^{2a} and R^{2b} is independently selected from hydrogen; cyano; alkyl; alkenyl; alkynyl; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; or heterocycle-alkynyl or when R^{2a} and R^{2b} are taken together to form vinyl or vinylalkyl;

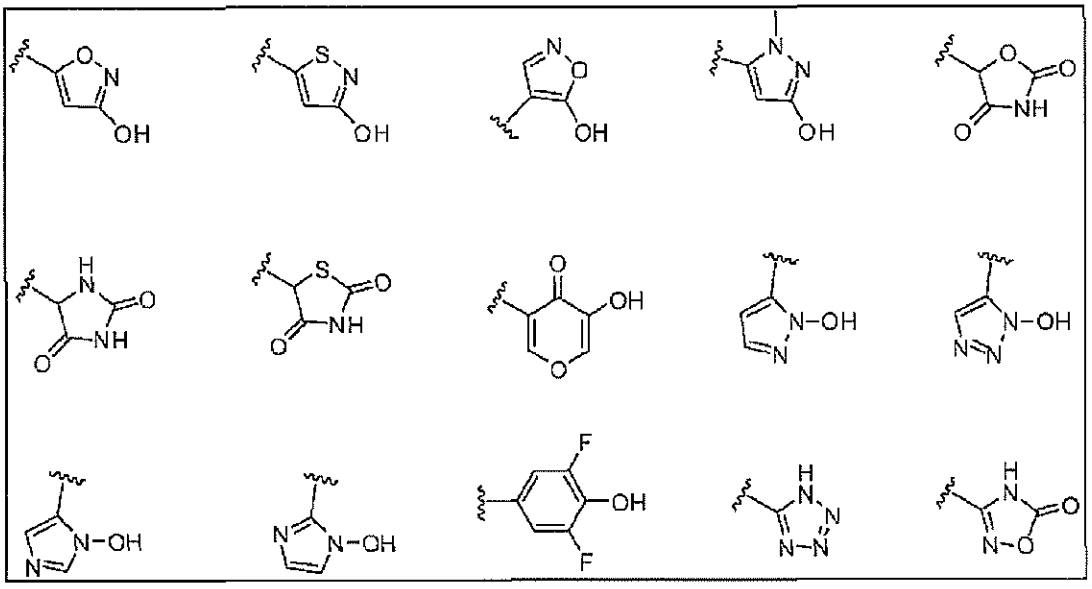
* wherein in the alkyl, alkenyl or alkynyl moiety of said alkyl, alkenyl,

alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, heterocycle-alkynyl or vinylalkyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively;

* and wherein said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, heterocycle-alkynyl, vinyl or vinylalkyl, can be unsubstituted or substituted with one or more Z^1;

* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, heterocycle-alkynyl, or vinylalkyl can oxidised to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$.

- R^3 is independently selected from –COOH; -CN; $-CONH_2$; $-COOZ^2$; -C(O)NHCN; -C(O)NHOH; $-S(O)_2OH$; $-S(O)_2NHZ^4$; $-P(O)(OH)NH_2$; -P(O)(OH)O-alkyl; $-P(O)(O\text{-alkyl})_2$; $-P(O)OH_2$; $-NHC(O)NHS(O)_2$-aryl; $-NHC(O)NHS(O)_2$-heteroaryl; $-C(O)NHS(O)_2$-aryl; $-C(O)NHS(O)_2$-heteroaryl; $-S(O)_2NHS(O)_2$-aryl; $-S(O)_2NHS(O)_2$-heteroaryl; or from the following structures:



or

- R^{2a} and R^3 or R^{2b} and R^3 can be taken together to form a 4, 5, 6, or 7-membered lactone;

- R^4 is independently selected from hydrogen; halogen; cyano; hydroxyl; alkyl; alkenyl, alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; heterocycle-alkynyl;

* wherein in the alkyl, alkenyl or alkynyl moiety of said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively;

* and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl can be unsubstituted or substituted with one or more Z^1;

* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each dotted line represents an optional double bond whereby maximally two non-adjacent dotted lines can form a double bond;

- W, X, Y, and Z are independently selected from CR', CR'R", N, NR"', O and S depending on whether they are adjacent to a double or a single bond, wherein R', R" and R"' are independently selected from the group consisting of hydrogen; halogen; $-OZ^2$; $-SZ^2$; $-S(O)Z^3$; $-S(O)_2Z^3$; $-SO_2NZ^4Z^5$; trifluoromethyl; nitro; $-NZ^4Z^5$; $-NZ^2S(O)_2Z^3$; cyano; $-COOZ^2$; $-C(O)NZ^4Z^5$; $-C(O)Z^3$; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; heterocycle-alkynyl;

* and wherein said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, optionally includes one or more heteroatoms, said heteroatoms being selected from the atoms O, S and N;

* and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2;

* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- R' or R" on the same carbon atom can be taken together to form a 5, 6 or 7-membered spiro-cycloalkyl, spiro-cycloalkenyl, spiro-cycloalkynyl or a saturated or unsaturated spiro-heterocycle together with the 5, 6 or 7-membered unsaturated ring they are attached to; or

- an R' and another R', R" or R" on adjacent atoms can be taken together to form a 5, 6 or 7-membered cycloalkyl, cycloalkenyl, cycloalkynyl, aryl or heterocycle fused to the 5, 6 or 7-membered unsaturated ring they are attached to;

- each Z^1 is independently selected from the group consisting of hydrogen; halogen; $-OZ^2$; $-SZ^2$; $-S(O)Z^3$; $-S(O)_2Z^3$; $-SO_2NZ^4Z^5$; trifluoromethyl; nitro; $-NZ^4Z^5$; $-NZ^2S(O)_2Z^3$ cyano; $-COOZ^2$; $-C(O)NZ^4Z^5$; $-C(O)Z^3$; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; heterocycle-alkynyl;

* wherein in the alkyl, alkenyl or alkynyl moiety of said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively;

* and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl can be unsubstituted or substituted with one or more Z^{11};

* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl, or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$; or

- two Z^1 on the same carbon atom can be taken together to form a 5, 6 or 7-membered spiro-cycloalkyl, spiro-cycloalkenyl, spiro-cycloalkynyl, or a

saturated or unsaturated spiro-heterocycle together with the (4, 5, 6, 7 or 8-membered unsaturated) ring they are attached to; or

- two Z^1 on adjacent atoms can be taken together to form a 5, 6 or 7-membered cycloalkyl, cycloalkenyl, cycloalkynyl, aryl or heterocycle fused to the (4, 5, 6, 7, or 8-membered unsaturated) ring they are attached to;

- each Z^{11} is independently selected from the group consisting of hydrogen; halogen; $-OZ^{12}$; $-SZ^{12}$; $-S(O)Z^{13}$; $-S(O)_2Z^{13}$; $-SO_2NZ^{14}Z^{15}$; trifluoromethyl; nitro; $-NZ^{14}Z^{15}$; $-NZ^{12}S(O)_2Z^{13}$; cyano; $-COOZ^{12}$; $-C(O)NZ^{14}Z^{15}$; $-C(O)Z^{13}$; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; heterocycle-alkynyl;

- each Z^2 is independently selected from hydrogen; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein said alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl optionally include one or more heteroatoms, said heteroatom selected from O, S and N; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each Z^{12} is independently selected from hydrogen; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein in said alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -

O-alkyl, -OCF_3, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each Z^3 is independently selected from hydroxyl; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl optionally includes one or more heteroatoms, said heteroatom selected from O, S and N; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, -OCF_3, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each Z^{13} is independently selected from hydroxyl; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein in said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, one or more -CH_3, -CH_2-, -CH= and/or $\equiv$CH is optionally replaced by one or more -NH_2, -NH-, -O-, -S-, -N= and/or $\equiv$N, respectively; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -Oalkyl, -OCF_3, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$;

- each Z^4 and Z^5 is independently selected from hydrogen; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein said alkyl, alkenyl,

alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl optionally includes one or more heteroatoms, said heteroatom selected from O, S and N; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$; and wherein Z^4 and Z^5 can be taken together in order to form a (5-, 6-, or 7-membered) heterocycle which can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or $-NH_2$;

- each Z^{14} and Z^{15} is independently selected from hydrogen; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl or heterocycle-alkynyl; and wherein in said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, one or more $-CH_3$, $-CH_2-$, -CH= and/or $\equiv CH$ is optionally replaced by one or more $-NH_2$, -NH-, -O-, -S-, -N= and/or $\equiv N$, respectively; and wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or NH_2; and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$; and wherein Z^4 and Z^5, and Z^{14} and Z^{15} respectively can be taken together in order to form a (5-, 6-, or 7-membered) heterocycle which can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or $-NH_2$; and

- n is selected from 0; 1; or 2.

and isomers (in particular stereo-isomers or tautomers), solvates, hydrates or salts (in particular pharmaceutically acceptable salts) thereof,

provided that the compounds are not selected from

* [2-(2-methoxy-5-methylphenyl)-4-phenyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2,7-dimethyl-4-(2-furanyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [4-(2-thienyl)-2-methyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2,7-dimethyl-4-phenyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2,7-dimethyl-4-(*m*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2-methyl-4-(*m*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [4-(4-chlorophenyl)-2-methyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [4-(4-chlorophenyl)-2-methyl-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [4-(p-anisyl)-2-methyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridine-3-yl]acetic acid;
* Ethyl [4-phenyl-2-(2-thienyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetate;
* Ethyl [2-(2-thienyl)-4-(*p*-tolyl)-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetate;
* [2-methyl-4-(*p*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [4-phenyl-2-(2-thienyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2-(4-ethoxyphenyl)-4-(*p*-tolyl)-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2-(4-iodophenyl)-4-phenyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yllacetic acid;
* [2-(4-propoxyphenyl)-4-*p*-tolyl-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetic acid;
* [2-(3,4-dipropoxyphenyl)-4-*p*-tolyl-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yllacetic acid;

* [2-(2-thienyl)-4-(*p*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;

* [2-(4-pentyloxyphenyl)-4-(*p*-tolyl)-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetic acid;

* Ethyl [4-(*p*-tolyl)-2-(2-thienyl)-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetate;

* Ethyl [4-phenyl-2-(2-thienyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetate;

* [4-(3-fluorophenyl)-2-methyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;

* [2-methyl-4-(*p*-tolyl)-6,7-dihydro-5*H*-cyclopenta[4,5]thieno[2,3-*b*]pyridin-3-yl]acetic acid;

* [2-methyl-4-phenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;

* [2-(2-thienyl)-4-(*p*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid;

* [2-methyl-4-(*p*-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-*b*]pyridin-3-yl]acetic acid; and

wherein

the term "alkyl" as used herein means C_1-C_{18} normal, secondary, or tertiary, linear or cyclic, branched or straight hydrocarbon with no site of unsaturation;

the term "alkenyl" as used herein is C_2-C_{18} normal, secondary or tertiary, linear or cyclic, branched or straight hydrocarbon with at least one of unsaturation, namely a carbon-carbon, sp2 double bond;

the term "alkynyl" as used herein refers to C_2-C_{18} normal, secondary, tertiary, linear or cyclic, branched or straight hydrocarbon with at least one site of unsaturation, namely a carbon-carbon, sp triple bond;

the term "cycloalkyl" means a monocyclic saturated hydrocarbon monovalent radical having from 3 to 10 carbon atoms, or a C_{7-10} polycyclic saturated hydrocarbon monovalent radical having from 7 to 10 carbon atoms;

the term "cycloalkenyl" as used herein refers to C_2-C_{18} normal, secondary or tertiary, cyclic hydrocarbon with at least one site of unsaturation, namely a carbon-carbon, sp2 double bond;

the term "cycloalkynyl" as used herein refers to C_2-C_{18} normal, secondary,

tertiary, cyclic hydrocarbon with at least one site of unsaturation, namely a carbon-carbon, sp triple bond;

the term "aryl" as used herein means a aromatic hydrocarbon radical of 6-20 carbon atoms derived by the removal of hydrogen from a carbon atom of a parent aromatic ring system;

the term "heterocycle" as used herein means a saturated, unsaturated or aromatic ring system including at least one N, 0, S, or P;

the term "arylalkyl" as used herein refers to an alkyl radical in which one of the hydrogen atoms bonded to a carbon atom is replaced with an aryl radical and the arylalkyl group comprises 6 to 20 carbon atoms;

the term "arylalkenyl" as used herein refers to an alkenyl radical in which one of the hydrogen atoms bonded to a carbon atom, is replaced with an aryl radical and the arylalkenyl group comprises 6 to 20 carbon atoms;

the term "arylalkynyl" as used herein refers to an alkynyl radical in which one of the hydrogen atoms bonded to a carbon atom, is replaced with an aryl radical and the arylalkynyl group comprises 6 to 20 carbon atoms;

the term "heterocycle-alkyl" as used herein refers to an alkyl radical in which one of the hydrogen atoms bonded to a carbon atom is replaced with a heterocyle radical and the heterocycle-alkyl group comprises 6 to 20 carbon atoms;

the term "heterocycle-alkenyl" as used herein refers to an alkenyl radical in which one of the hydrogen atoms bonded to a carbon atom is replaced with an heterocycle radical and the heterocycle-alkenyl group comprises 6 to 20 carbon atoms;

the term "heterocycle-alkynyl" as used herein refers to an alkynyl radical in which one of the hydrogen atoms bonded to a carbon atom, is replaced with a heterocycle radical and the heterocycle-alkynyl group comprises 6 to 20 carbon atoms; and

the term "heteroaryl" means means an aromatic ring system including at least one N, 0, S, or P.

2. The compound according to claim 1,

wherein,

- each Z^1 is independently selected from the group consisting of hydrogen; halogen; $-OZ^2$; $-SZ^2$; $-S(O)Z^3$; $-S(O)_2Z^3$; $-SO_2NZ^4Z^5$; trifluoromethyl; nitro; -

NZ^4Z^5; $-NZ^2S(O)_2Z^3$ cyano; $-COOZ^2$; $-C(O)NZ^4Z^5$; $-C(O)Z^3$; alkyl; alkenyl; alkynyl; aryl; heterocycle; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; heterocycle-alkynyl;

* wherein said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl, optionally includes one or more heteroatoms, said heteroatoms being selected from the atoms O, S and N;

* wherein said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be unsubstituted or substituted with alkyl, alkenyl, alkynyl, hydroxyl, halogen, -SH, trifluoromethyl, -O-alkyl, $-OCF_3$, cyano, nitro, -COOH or $-NH_2$;

* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, aryl, heterocycle, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$; or

- two Z^1 on the same carbon atom can be taken together to form a spiro-carbocycle or a saturated or unsaturated spiro-heterocycle together with the 4, 5, 6, 7 or 8-membered unsaturated ring they are attached to; or

- two Z^1 on adjacent atoms can be taken together to form a fused ring system together with the 4, 5, 6, 7 or 8-membered unsaturated ring they are attached to.

3. The compound according to claim 1 or 2, wherein R^3 is –COOH.

4. The compound according to claims 1 to 3, wherein R^1 is selected from aryl or heteroaryl, wherein said aryl or heteroaryl can be unsubstituted or substituted with one or more Z^1.

5. The compound according to any of claims 1 to 4, wherein one of R^{2a} and R^{2b} is hydrogen, and the other of R^{2a} and R^{2b} is selected from cyano; alkyl; alkenyl; alkynyl; arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; or heterocycle-alkynyl;

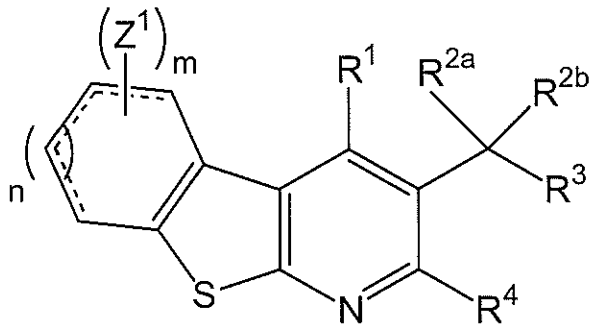
* wherein said alkyl, alkenyl, alkynyl, arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; or heterocycle-alkynyl optionally

includes one or more heteroatoms, said heteroatoms in the alkyl, alkenyl or alkynyl moiety being selected from the atoms O, S and N;

* wherein said alkyl, alkenyl, alkynyl, arylalkyl; arylalkenyl; arylalkynyl; heterocycle-alkyl; heterocycle-alkenyl; or heterocycle-alkynyl vinyl or vinylalkyl, can be unsubstituted or substituted with one or more Z^1;

* and wherein optionally a carbon atom or heteroatom of said alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, heterocycle-alkyl, heterocycle-alkenyl or heterocycle-alkynyl can be oxidized to form a C=O, C=S, N=O, N=S, S=O or $S(O)_2$.

6. The compound according to formula (B),



(B)

wherein,

- each dotted line represent an optional double bond whereby maximally two non-adjacent dotted lines can form a double bond;
- each of R^1, R^{2a}, R^{2b}, R^3, R^4 and Z^1 are as in claims 1 to 4;
- n is selected from 0; 1; or 2; and
- m is selected from 0; 1; 2; 3; 4; 5 or 6.

7. The compounds according to any of claims 1 to 6 selected from the list of:

- Methyl [2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] acetate;
- Methyl [2-methyl-4-phenyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] acetate;
- Methyl [2-methyl-4-(4-chlorophenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(4-trifluoromethylphenyl)-6,7-dihydro-5H-

cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(4-ethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-p-tolylbenzo[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-phenyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]acetate;
- Methyl [2-methyl-4-(2-furyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(2-thienyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(p-anisyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(tert-butyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(p-tolyl)-5,8-dihydro-6H-7-oxa-9-thia-1-aza-fluoren-3-yl]acetate;
- Methyl [7-methyl-2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]acetate;
Methyl [7-benzyl-2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]acetate;
Methyl [2-methyl-4-(p-tolyl)-5H-cyclohepta[4,5]thieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(2-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(3-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(3,4-dichlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(3-trifluoromethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(4-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(m-anisyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yllacetate;

- Methyl [2-methyl-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(benzo[d][1,3]dioxol-5-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(4-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(4-ethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(pyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(4-trifluoromethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(2-methyl-1H-indol-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(2-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(benzofuran-2-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl [2-methyl-4-(2-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Ethyl [7-benzyl-2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoate;
- Ethyl 2-[2,7-dimethyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoate;
- Ethyl 2-[2-methyl-4-(p-tolyl)-spiro[[1,3]dioxolane-2,7]-5,6,7,8-tetrahydro-9-thia-1-aza-7-oxo-fluoren-3-yl]pentanoate;
- Ethyl [2-methyl-4-(p-toly1)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl 2[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] pentanoate;
- Methyl 2[2-methyl-4-phenyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] pentanoate;
- Methyl 2[2-methyl-4-(4-chlorophenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b] pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-

b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(4-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(4-ethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-p-tolylbenzo[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-4-O-methoxymethylether-butanoate;

- Methyl 2[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-4-O-methoxy-butanoate;

Methyl 2[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acrylate;

- Methyl 2[2-Methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-2-cyclopentylacetate;

- Methyl 2[2-Methyl-4-(p-tolyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-3-methoxypropanoate;

- Methyl 2[2-phenyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(2-furyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(2-thienyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(p-anisyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(tert-butyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5,8-dihydro-6H-7-oxa-9-thia-1-aza-fluoren-3-yl]pentanoate;

- Methyl 2-[2-methyl-4-(p-tolyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-3-benzyloxypropanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-3-phenylpropanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5H-cyclohepta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4-methylpentanoate;
- Methyl 2-[2-methyl-4-(2-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(3-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(3,4-dichlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yllpentanoate;
- Methyl 2[2-methyl-4-(3-trifluoromethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(m-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2-[2-methyl-4-(4-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2-[2-methyl-4-(m-anisyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2-[2-methyl-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(benzo[d][1,3]dioxol-5-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-6,6,6-trifluorohexanoate;
- Methyl 2-[2-methyl-4-(4-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(4-ethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(pyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(4-trifluoromethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(2-methyl-1-propyl-1H-indol-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2-[2-methyl-4-(2-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- Methyl 2[2-methyl-4-(benzofuran-2-yl)-5,6,7,8-

tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4-phenylbutanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-3-methylbutanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-3-methylpentanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-5,5,5-trifluoropentanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-pent-4-yn-oate;

- Methyl 2[2-methyl-4-(2-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;

- Methyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4,4-dimethylpentanoate;

- Ethyl 2[2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-3-cyclopropylpropanoate;

- 2[2-Methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;

- [2-Methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetic acid;

- [2-Methyl-4-phenyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]acetic acid;

- [2-Methyl-4-phenyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;

- 2[2-Methyl-4-(4-chlorophenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;

- 2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;

- (2S)-[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;

- (2R)-[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;

- 2[2-Methyl-4-(4-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;

- 2[2-Methyl-4-(4-ethylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] pentanoic acid;
- 2[2-Methyl-4-p-tolylbenzo[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 3[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]dihydrofuran-- 2(3H)-one;
- 2[2-methyl-4-(p-tolyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-4-O-methoxy-butanoic acid;
- 2[2-Methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-2-cyclopentylacetic acid;
- 2[2-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yllacrylic acid;
- 2[2-Methyl-4-(p-tolyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-3-methoxypropanoic acid;
- 2[2-phenyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-methyl-6-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3b]pyridin-3-yl] pentanoic acid;
- 2[2-methyl-7-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl] pentanoic acid;
- 2[2-Methyl-4-(2-furyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(2-thienyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-anisyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(tert-butyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,8-dihydro-6H-7-oxa-9-thia-1-aza-fluoren-3-yl]pentanoic acid;
- 2[2-Methyl-4-(4-methylphenyl)-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]-3-phenylpropanoic acid;
- 2-[2-Methyl-4-(p-tolyl)-5H-cyclohepta[4,5]thieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4-methylpentanoic acid;

- 2[2-Methyl-4-(2-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(3-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(3,4-dichlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(3-trifluoromethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yllpentanoic acid;
- 2[2-Methyl-4-(m-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2-[2-Methyl-4-(4-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(m-anisyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(benzo[d][1,3]dioxol-5-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-6,6,6-trifluorohexanoic acid;
- 2[2-Methyl-4-(4-chlorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(4-ethylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(pyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(4-trifluoromethoxyphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(2-methyl-1-propyl-1H-indol-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(2-fluorophenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(benzofuran-2-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4-

phenylbutanoic acid;

- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-3-methylbutanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]- 3-methylpentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-5,5,5-trifluoropentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-pent-4-yn-oic acid;
- 2[2-methyl-4-(2-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yllpentanoic acid;
- 2[2-Methyl-4-(2-hydroxy-4-methylphenyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate ammonium salt;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-4,4-dimethylpentanoic acid;
- 2[7-Benzyl-2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoic acid;
- 2-[2,7-Dimethyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoic acid;
- 2[2-Methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-3-cyclopropylpropanoic acid;
- N-cyano-2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanamide;
- 2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanamide;
- Methyl 2[2-methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- Methyl 2[2-methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-ethoxyacetate;
- 2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- 2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-ethoxyacetic acid;
- Methyl 2[2-Methyl-4-(pyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;

- 2[2-Methyl-4-(pyridin-3-yl)-5 6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- 2[2-Methyl-4-p-tolyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanenitrile;
- 2-Methyl-4-(p-tolyl)-3-[1-(1H-tetrazol-5-yl)butyl]-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridine;
- Methyl 2-[2-methyl-4-(1-methyl-1H-pyrazol-4-y1)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2-[2-methyl-4-(1-methyl-1H-pyrazol-4-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- 3-(1-[2-methyl-6-methyl-4-p-tolyl-6,7-dihydro-5H-cyclopenta[4,5]thieno[2,3-b]pyridin-3-yl]butyl)-1,2,4-oxadiazol-5(4H)-one;
- Ethyl [2-ethyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Ethyl 2[2-ethyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoate;
- 2[2-ethyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid;
- 5[1-(2-ethyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl)butyl]thiazolidine-2,4-dione;
- Ethyl (4-iodo-2-methyl-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl)carboxylate;
- Methyl 2-[2-methyl-4-(6-methylpyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-methyl-4-(6-methylpyridin-3-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- Methyl 2[2-methyl-4-(benzo[d]thiazol-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-methyl-4-(benzo[d]thiazol-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- Methyl 2[2-methyl-4-(2,3-dihydropyrano[4,3,2-de]quinolin-7-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;
- 2[2-methyl-4-(2,3-dihydropyrano[4,3,2-de]quinolin-7-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;
- Methyl 2[2-methyl-4-(8-fluoro-5-methylchroman-6-yl)-5,6,7,8-

tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;

- 2[2-methyl-4-(8-fluoro-5-methylchroman-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;

- Methyl 2[2-methyl-4-(5-chlorochroman-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;

- 2[2-methyl-4-(5-chlorochroman-6-yl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;

- Dimethyl [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]methylphosphonate;

- Dimethyl [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]butylphosphonate;

- 1-(2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl)butylphosphonic acid;

- Methyl 2[2-methyl-4-(phenylthio)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;

- 2[2-methyl-4-(phenylthio)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;

- Ethyl [7-acetyl-2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoate;

- [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,7-diaza-fluoren-3-yl]pentanoate ammonium salt;

- [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,6-diaza-fluoren-3-yl] pentanoate ammonium salt;

- [2-methyl-4-(p-tolyl)-5,6,7,8-tetrahydro-9-thia-1,8-diaza-fluoren-3-yl]pentanoate ammonium salt;

- Methyl 2-[2-methyl-4-(phenyloxy)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetate;

- 2[2-methyl-4-(phenyloxy)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid;

- 2[2-methyl-4-(phenylamino)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]-2-tert-butoxyacetic acid.

- [2-hydroxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetic acid;

- [2-methoxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yllacetic acid;

- [2-methoxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]acetate;
- Methyl 2-[2-methoxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3b]pyridin-3-yl]pentanoate;
- 2-[2-methoxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid; and

2-[2-hydroxy-4-(p-tolyl)-5,6,7,8-tetrahydro[1]benzothieno[2,3-b]pyridin-3-yl]pentanoic acid.

8. The compounds according to any of claims 1 to 7 for use as a medicine.

9. The use of compounds according to claims 1 to 7 for the manufacture of a medicament wherein the medicament is for the prevention or treatment of a HIV infection in an animal.

10. The use according to claim 9, wherein the animal is a mammal or a human.

11. A method for the preparation of the compounds according to any of claims 1 to 7 comprising the steps of:

- reacting a beta-ketonitile of formula R^1-C(O)CH_2CN with a compound of formula $R^6C(O)CH_2R^5$ in the presence of sulfur and a strong base in a polar protic solvent or in a polar aprotic solvent at a temperature between 60°C to 100°C;
- reacting the obtained 2-aminothiophene reaction product of the previous step with a compound of formula $R^4C(O)CH_2CH_2R^3$ in the presence of trimethyl chlorosilane in a polar aprotic solvent at a temperature between 50°C and 200°C;
- optionally, reacting the compound obtained in the previous step with a compound having a structure of the formula R^{2a}-leaving group and/or R^{2b}-leaving group through a nucleophilic substitution.

12. A pharmaceutical composition comprising the compounds according to any of claims 1 to 7 in admixture with at least a pharmaceutically acceptable carrier.

13. The pharmaceutical composition according to claim 12, further comprising a

compound with antiviral activity selected from reverse transcriptase inhibitors, protease inhibitors, integrase inhibitors and entry inhibitors.

5