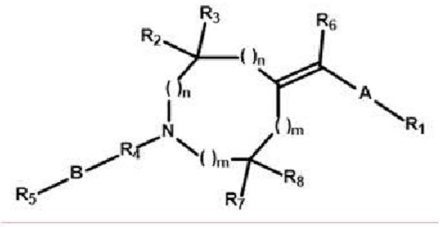
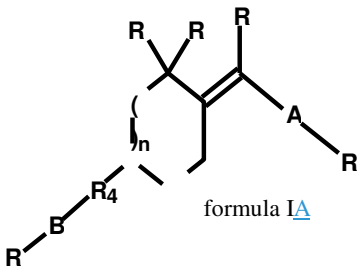
CLAIMS:

1. A compound of formula IA:





formula IA

Field Code

or an enantiomer, diastereomer, N-oxide, or a pharmaceutically acceptable salt or combinations thereof, wherein:

R_1 is an optionally substituted mono-, bi- or tricyclic C_6-C_{14} aryl group, an optionally substituted mono-, bi- or tricyclic C_1-C_{13} heterocyclic group containing from 1 to 5 heteroatoms selected from N, O and S, an optionally substituted C_3-C_6 cycloalkyl group, or an optionally substituted C_3-C_6 cycloalkenyl group ~~or an optionally substituted C_1-C_6 alkyl group~~;

A is a carbon-carbon triple bond, a carbon-carbon double bond or A represents a five- or six-membered heterocyclic group containing from 1 to 4 heteroatoms selected from N, S and O;

R_2 and R_3 ~~are~~ each ~~independently hydrogen,~~ represent a~~n~~ C_1-C_6 alkyl group or each represent a fluorine atom~~, or R_2 and R_3 are linked to each other to form a C_3-C_6 cycloalkyl~~

~~or a C_3-C_6 heterocyclic ring while simultaneously R_7 and R_8 are each independently an alkyl group or a fluorine atom, or alternatively R_2 or R_3 are bonded to R_7 or R_8 to form a condensed cycloalkyl ring~~;

n is 0 or 1, and m is 1~~are each independently an integer selected from 0-2~~;

R_4 is a carbonyl, a thiocarbonyl or a sulphonyl group, or a bond;

B is an oxygen or sulphur atom, a nitrogen atom optionally substituted by a C_1-C_5 alkyl group or a methoxy group, or B is absent;

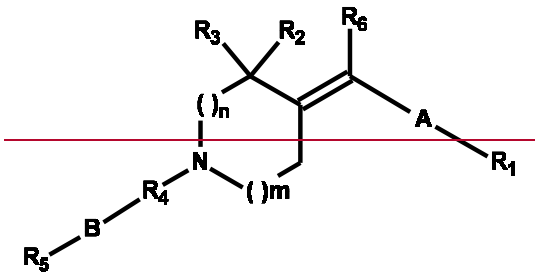
R_5 is an optionally substituted mono-, bi- or tricyclic C_6-C_{14} aryl group, an optionally substituted mono-, bi- or tricyclic C_1-C_{13} heterocyclic group containing from 1 to 5 heteroatoms selected from N, O and S, an optionally substituted C_3-C_6 cycloalkyl group, an optionally substituted C_3-C_6 cycloalkenyl group or an optionally substituted C_1-C_6 alkyl group; and

R_6 is a hydrogen atom, an optionally substituted C_1-C_4 alkyl group, or a fluorine atom, wherein the optional substituents are each independently selected from the group consisting of halogen atoms, C_1-C_6 alkyl, C_1-C_6 alkoxy, hydroxy, mercapto, nitro, cyano, oxo, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, C_1-C_6 alkylthio, C_1-C_6 alkylsulphonyl, C_1-C_6 alkylcarbonyl, sulphamoyl, C_1-C_6 alkylsulphamoyl, di(C_1-C_6)alkylsulphamoyl, (C_1-C_6)alkoxycarbonyl and (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl groups, and from groups of the formulae -NR*R*, -C(=0)-NR*R*, -D, -O-D, -C(=O)-D, - $(CH_2)_q$-D, -NR**-D, -C(=O)-NR**-D, -NR**C(=O)-D and -O-C(=O)-D wherein each R* independently represents a hydrogen atom or a C_1-C_6 alkyl, C_1-C_6 alkoxy, C_1-C_6 alkylcarbonyl, phenyl or benzyl group, R** represents a hydrogen atom or a C_1-C_6 alkyl group, q is an integer from 1 to 6 and D represents a phenyl group or a C_1-C_8 heterocyclic group containing from 1 to 3 heteroatoms selected from N, O and S; a C_1-C_6 cycloalkyl group; each group D being further optionally substituted with from 1 to 3 groups independently selected from halo, hydroxy, cyano, nitro and C_1-C_6 alkyl.

2.- A compound according to claim 1 ~~wherein the optional substituents are independently selected from the group consisting of halogen atoms, C_1-C_6 alkyl, C_1-C_6 alkoxy, hydroxy, mercapto, nitro, cyano, oxo, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, C_1-C_6 alkylthio, C_1-C_6 alkylsulphonyl, C_1-C_6 alkylcarbonyl, sulphamoyl, C_1-C_6 alkylsulphamoyl, di(C_1-C_6)alkylsulphamoyl, (C_1-C_6)alkoxycarbonyl and (C_1-~~

~~C_6)alkylcarbonyl(C_1-C_6)alkyl groups, and from groups of the formulae NR*R*, C(=O) NR*R*, D, O D, C(=O) D, $(CH_2)_q$ D, NR** D, C(=O) NR** D, NR**C(=O) D and O C(=O) D wherein each R* independently represents a hydrogen atom or a C_1-C_6 alkyl, C_1-C_6 alkoxy, C_1-C_6 alkylcarbonyl, phenyl or benzyl group, R** represents a hydrogen atom or a C_1-C_6 alkyl group, q is an integer from 1 to 6 and D represents a phenyl group or a C_1-C_8 heterocyclic group containing from 1 to 3 heteroatoms selected from N, O and S; a C_1-C_6 cycloalkyl group; each group D being further optionally substituted with from 1 to 3 groups independently selected from halo, hydroxy, cyano, nitro and C_1-C_6 alkyl, preferably~~ wherein the optional substituents are selected from the groups consisting of halogen atoms and C_1-C_6 alkyl groups; and R_6 is a hydrogen atom, an optionally substituted C_1-C_4 alkyl group or a fluorine atom~~wherein the optional substituents are selected from the groups consisting of halogen atoms and C_1-C_6 alkyl groups~~.

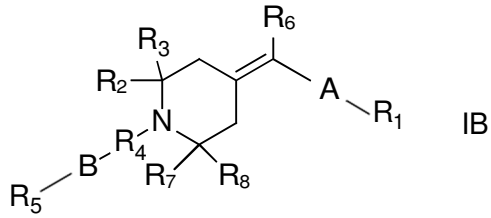
3. ~~A compound according to claim 1 of formula IA:~~



~~formula IA~~

~~wherein R_1, R_2, R_3, R_4, R_5, R_6, A, B, m and n are as defined in claim 1 for the compound of formula I.~~

43.- A compound ~~according to claim 1~~ of formula IB:



IB

formula IB

~~wherein R_1, R_4, R_5, R_6, A, and B are as defined in claim 1 for the compound of formula I; R_5 is also hydrogen; and~~

or an enantiomer, diastereomer, or a pharmaceutically acceptable salt or combinations thereof, wherein:

R_1 is an optionally substituted mono-, bi- or tricyclic C_6-C_{14} aryl group, an optionally substituted mono-, bi- or tricyclic C_1-C_{13} heterocyclic group containing from 1 to 5 heteroatoms selected from N, O and S, an optionally substituted C_3-C_6 cycloalkyl group~~,~~ or an optionally substituted C_3-C_6 cycloalkenyl group;

A is a carbon-carbon triple bond, a carbon-carbon double bond or A represents a five- or six-membered heterocyclic group containing from 1 to 4 heteroatoms selected from N, S and O;

R_4 is a carbonyl, a thiocarbonyl or a sulphonyl group, or a bond;

B is an oxygen or sulphur atom, a nitrogen atom optionally substituted by a C_1-C_5 alkyl group or a methoxy group, or B is absent;

R_5 is H, an optionally substituted mono-, bi- or tricyclic C_6-C_{14} aryl group, an optionally substituted mono-, bi- or tricyclic C_1-C_{13} heterocyclic group containing from 1 to 5 heteroatoms selected from N, O and S, an optionally substituted C_3-C_6 cycloalkyl group, an optionally substituted C_3-C_6 cycloalkenyl group or an optionally substituted C_1-C_6 alkyl group;

R_6 is a hydrogen atom, an optionally substituted C_1-C_4 alkyl group, or a fluorine atom; and

~~wherein~~ R_2, R_3, R_7, and R_8 each represent C_1-C_6 alkyl, or R_2 and R_3 each represent hydrogen and R_7 and R_8, together with the carbon atom to which they are attached, form a C_3-C_6 cycloalkyl ring, or R_2, R_3, R_7, and R_8, together with the carbon atoms to which they are attached, form a condensed C_3-C_6 cycloalkyl ring.

wherein the optional substituents are each independently selected from the group consisting of halogen atoms, C_1-C_6 alkyl, C_1-C_6 alkoxy, hydroxy, mercapto, nitro, cyano, oxo, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, C_1-C_6 alkylthio, C_1-C_6 alkylsulphonyl, C_1-C_6 alkylcarbonyl, sulphamoyl, C_1-C_6 alkylsulphamoyl, di(C_1-C_6)alkylsulphamoyl, (C_1-C_6)alkoxycarbonyl and (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl groups, and from groups of the formulae -NR*R*, -C(=0)-NR*R*, -D, -O-D, -C(=O)-D, - $(CH_2)_q$-D, -NR**-D, -C(=O)-NR**-D, -NR**C(=O)-D and -O-C(=O)-D wherein each R* independently represents a hydrogen atom or a C_1-C_6 alkyl, C_1-C_6 alkoxy, C_1-C_6 alkylcarbonyl, phenyl or benzyl group, R** represents a hydrogen atom or a C_1-C_6 alkyl group, q is an integer from 1 to 6 and D represents a phenyl group or a C_1-C_8 heterocyclic group containing from 1 to 3 heteroatoms selected from N, O and S; a C_1-C_6 cycloalkyl group; each group D being further optionally substituted with from 1 to 3 groups independently selected from halo, hydroxy, cyano, nitro and C_1-C_6 alkyl.

~~5~~4. A compound according to any of claims 1 to ~~claim 4~~3, wherein R_1 is selected from the group consisting of an optionally substituted phenyl, pyridinyl or pyrimidinyl moiety ~~or derivative thereof.~~

~~6~~5. A compound according to any of claims 1 to ~~claim 4~~, wherein A is a carbon-carbon triple bond or A is selected from the group consisting of a 1,3-oxazolyl, isoxazolyl, 1,2,4-oxadiazolyl, 1,3,4-oxadiazolyl or pyrazolyl moiety ~~or derivative thereof~~.

~~7~~6. A compound according to any of claims 1 to ~~claim 4~~5, wherein R_5 is selected from the group consisting of an optionally substituted methyl, ethyl, propyl, iso-propyl, tertiary-butyl, methoxyethyl, N,N-dimethyl, N-methoxy-N-methyl, N,N-diethyl, N-ethyl-N-isopropyl, cyclohexyl, benzotriazolyl, furanyl, isoxazolyl, morpholinyl, oxazolyl, phenyl, piperidinyl, pyranyl, pyrazolyl, pyridinyl, pyrimidinyl, pyrrolidinyl, triazinyl or triazolyl moiety ~~or derivative thereof~~.

~~8~~7. A compound according to any of claims 1 to ~~claim 4~~5, wherein R_4 is a carbonyl or sulphonyl group, B is absent and R_5 is an optionally substituted bicyclic C_1-C_{13} heterocyclic group containing from 1 to 5 heteroatoms selected from N, O and S.

~~9~~8. A compound according to any of claims 1 to ~~claim 4~~5, wherein B is an oxygen or nitrogen atom optionally substituted by a C_1-C_5 alkyl group or a methoxy group and R_5 is selected from the group consisting of an optionally substituted methyl, ethyl, propyl, iso-propyl, tertiary-butyl or methoxyethyl moiety ~~or derivative thereof~~.

~~10~~9. ~~-~~ A compound according to claim 1, the compound being selected from the group consisting of:

tert-butyl (4E)-3,3-dimethyl-4-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]piperidine-1-carboxylate;

tert-butyl (4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;

ethyl (4E)-3,3-dimethyl-4-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]piperidine-1-carboxylate;

ethyl (4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;

tert-butyl (4E)-4-[3-(2-chloropyridin-4-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;

tert-butyl (4E)-3,3-dimethyl-4-[3-(3-methylphenyl)prop-2-yn-1-ylidene]piperidine-1-carboxylate;

tert-butyl (4E)-3,3-difluoro-4-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]piperidine-1-carboxylate;

tert-butyl (4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-difluoropiperidine-1-carboxylate;

tert-butyl (4E)-4-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-3,3-difluoropiperidine-1-carboxylate;

tert-butyl (4E)-3,3-difluoro-4-[3-(3-methylphenyl)prop-2-yn-1-ylidene]piperidine-1-carboxylate;

ethyl (4E)-3,3-difluoro-4-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]piperidine-1-carboxylate;

ethyl (4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-difluoropiperidine-1-carboxylate;

ethyl (4E)-4-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-3,3-difluoropiperidine-1-carboxylate;
ethyl (4E)-3,3-difluoro-4-[3-(3-methylphenyl)prop-2-yn-1-ylidene]piperidine-1-carboxylate;
ethyl (4E)-4-[3-(2-chloropyridin-4-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
ethyl (4E)-3,3-dimethyl-4-[3-(3-methylphenyl)prop-2-yn-1-ylidene]piperidine-1-carboxylate;
ethyl (4E)-3,3-dimethyl-4-(3-phenylprop-2-yn-1-ylidene)piperidine-1-carboxylate;
ethyl (4E)-4-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
ethyl (4E)-4-[3-(2,5-difluorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
ethyl (4E)-3,3-dimethyl-4-{3-[6-(trifluoromethyl)pyridin-2-yl]prop-2-yn-1-ylidene}piperidine-1-carboxylate;
ethyl (4E)-4-[3-(3-fluorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
ethyl (4E)-3,3-dimethyl-4-{3-[3-(trifluoromethyl)phenyl]prop-2-yn-1-ylidene}piperidine-1-carboxylate;
ethyl (4E)-4-[3-(6-methoxypyridin-2-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
ethyl (4E)-4-[3-(3-methoxyphenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
ethyl (4E)-4-[3-(4-methoxypyridin-2-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
ethyl (4E)-3,3-dimethyl-4-[3-(pyridin-2-yl)prop-2-yn-1-ylidene]piperidine-1-carboxylate;
ethyl (4E)-4-[3-(3-cyanophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
ethyl (4E)-4-{3-[3-(cyanomethyl)phenyl]prop-2-yn-1-ylidene}-3,3-dimethylpiperidine-1-carboxylate;
ethyl (4E)-4-[3-(6-methoxypyridin-3-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;

ethyl (4E)-3,3-dimethyl-4-{3-[6-(methylamino)pyridin-2-yl]prop-2-yn-1-ylidene}piperidine-1-carboxylate;
ethyl (4E)-4-[3-(4-cyanopyridin-2-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
ethyl (4E)-4-[3-(3-cyano-5-fluorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
2-{(4E)-3,3-dimethyl-4-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]piperidin-1-yl}-6-methyl-3-nitropyridine;
(3-chlorophenyl){(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(piperidin-1-yl)methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(pyrrolidin-1-yl)methanone;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N,N,3,3-tetramethylpiperidine-1-carboxamide;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N,N-diethyl-3,3-dimethylpiperidine-1-carboxamide;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(furan-2-yl)methanone;
methyl (4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(morpholin-4-yl)methanone;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N-methoxy-N,3,3-trimethylpiperidine-1-carboxamide;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(3-methylphenyl)methanone;
2-{(3E)-3-[1-(3-chlorobenzoyl)-3,3-dimethylpiperidin-4-ylidene]prop-1-yn-1-yl}pyridine-4-carbonitrile;
(3-chlorophenyl){(4E)-3,3-dimethyl-4-[3-(3-methylphenyl)prop-2-yn-1-ylidene]piperidin-1-yl}methanone;

(2,5-dimethylfuran-3-yl)[(4E)-4-{3-[3-(hydroxymethyl)phenyl]prop-2-yn-1-ylidene}-3,3-dimethylpiperidin-1-yl]methanone;
[(4E)-3,3-dimethyl-4-(3-{3-[(pyrrolidin-1-yl)methyl]phenyl}prop-2-yn-1-ylidene)piperidin-1-yl](5-methylfuran-2-yl)methanone;
ethyl (3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
tert-butyl (3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
propyl (3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
2-methoxyethyl (3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
2-methylpropyl (3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
propan-2-yl (3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
(3E)-N,N,2,2-tetramethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxamide;
{(3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidin-1-yl}(furan-2-yl)methanone;
(3-chlorophenyl){(3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidin-1-yl}methanone;
{(3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidin-1-yl}(piperidin-1-yl)methanone;
{(3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidin-1-yl}(pyrrolidin-1-yl)methanone;
methyl (3E)-2,2-dimethyl-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
tert-butyl (3E)-2,2-dimethyl-3-[3-(4-methylpyrimidin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
ethyl (3E)-2,2-dimethyl-3-[3-(4-methylpyrimidin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;

2-methoxyethyl (3E)-2,2-dimethyl-3-[3-(4-methylpyrimidin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
propan-2-yl (3E)-2,2-dimethyl-3-[3-(4-methylpyrimidin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
methyl (3E)-2,2-dimethyl-3-[3-(4-methylpyrimidin-2-yl)prop-2-yn-1-ylidene]pyrrolidine-1-carboxylate;
tert-butyl (3E)-2,2-dimethyl-3-{3-[6-(methylamino)pyridin-2-yl]prop-2-yn-1-ylidene}pyrrolidine-1-carboxylate;
ethyl (3E)-2,2-dimethyl-3-{3-[6-(methylamino)pyridin-2-yl]prop-2-yn-1-ylidene}pyrrolidine-1-carboxylate;
propyl (3E)-2,2-dimethyl-3-{3-[6-(methylamino)pyridin-2-yl]prop-2-yn-1-ylidene}pyrrolidine-1-carboxylate;
2-methoxyethyl (3E)-2,2-dimethyl-3-{3-[6-(methylamino)pyridin-2-yl]prop-2-yn-1-ylidene}pyrrolidine-1-carboxylate;
2-methylpropyl (3E)-2,2-dimethyl-3-{3-[6-(methylamino)pyridin-2-yl]prop-2-yn-1-ylidene}pyrrolidine-1-carboxylate;
propan-2-yl (3E)-2,2-dimethyl-3-{3-[6-(methylamino)pyridin-2-yl]prop-2-yn-1-ylidene}pyrrolidine-1-carboxylate;
methyl (3E)-2,2-dimethyl-3-{3-[6-(methylamino)pyridin-2-yl]prop-2-yn-1-ylidene}pyrrolidine-1-carboxylate;
tert-butyl (3E)-3-[3-(4-cyanopyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
ethyl (3E)-3-[3-(4-cyanopyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
2-methoxyethyl (3E)-3-[3-(4-cyanopyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
2-methylpropyl (3E)-3-[3-(4-cyanopyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
propan-2-yl (3E)-3-[3-(4-cyanopyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
methyl (3E)-3-[3-(4-cyanopyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;

tert-butyl (3E)-3-[3-(3-cyano-5-fluorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
ethyl (3E)-3-[3-(3-cyano-5-fluorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
propyl (3E)-3-[3-(3-cyano-5-fluorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
2-methoxyethyl (3E)-3-[3-(3-cyano-5-fluorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
2-methylpropyl (3E)-3-[3-(3-cyano-5-fluorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
propan-2-yl (3E)-3-[3-(3-cyano-5-fluorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
methyl (3E)-3-[3-(3-cyano-5-fluorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
tert-butyl (3E)-3-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
{(3E)-3-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidin-1-yl}(furan-2-yl)methanone;
(3E)-3-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-N,N-diethyl-2,2-dimethylpyrrolidine-1-carboxamide;
{(3E)-3-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidin-1-yl}(pyrrolidin-1-yl)methanone;
{(3E)-3-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidin-1-yl}(piperidin-1-yl)methanone;
(3E)-3-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-N,N,2,2-tetramethylpyrrolidine-1-carboxamide;
ethyl (3E)-3-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
methyl (3E)-3-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;
(3-chlorophenyl){(3E)-3-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidin-1-yl}methanone;

ethyl (3E)-3-[3-(6-aminopyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;

(3E)-3-[3-(6-aminopyridin-2-yl)prop-2-yn-1-ylidene]-N,N-diethyl-2,2-dimethylpyrrolidine-1-carboxamide;

methyl (3E)-3-[3-(6-aminopyridin-2-yl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;

(3E)-3-[3-(6-aminopyridin-2-yl)prop-2-yn-1-ylidene]-N,N,2,2-tetramethylpyrrolidine-1-carboxamide;

tert-butyl (3E)-3-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;

{(3E)-3-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidin-1-yl}(piperidin-1-yl)methanone;

{(3E)-3-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidin-1-yl}(pyrrolidin-1-yl)methanone;

ethyl (3E)-3-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;

(3E)-3-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N-ethyl-2,2-dimethyl-N-(propan-2-yl)pyrrolidine-1-carboxamide;

(3E)-3-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N,N,2,2-tetramethylpyrrolidine-1-carboxamide;

{(3E)-3-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidin-1-yl}(furan-2-yl)methanone;

methyl (3E)-3-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidine-1-carboxylate;

(3-chlorophenyl){(3E)-3-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-2,2-dimethylpyrrolidin-1-yl}methanone;

(3-chlorophenyl)[(4E)-4-{[5-(3-chlorophenyl)-1H-pyrazol-3-yl]methylidene}-3,3-dimethylpiperidin-1-yl]methanone;

~~ethyl 2,2,6,6-tetramethyl-4-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]piperidine-1-carboxylate ;~~

~~2-methyl-6-[3-(2,2,6,6-tetramethylpiperidin-4-ylidene)prop-1-yn-1-yl]pyridine;~~

~~tert-butyl 8-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]-5-azaspiro[3.5]nonane-5-carboxylate ;~~

~~methyl 8-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]-5-azaspiro[3.5]nonane-5-carboxylate (E:Z mixture);~~

~~4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-1,2,2,6,6-pentamethylpiperidine;~~

~~2-methyl-6-[3-(1,2,2,6,6-pentamethylpiperidin-4-ylidene)prop-1-yn-1-yl]pyridine;~~

~~ethyl 3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]-8-azabicyclo[3.2.1]octane-8-carboxylate;~~

~~8-(6-methyl-3-nitropyridin-2-yl)-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]-8-azabicyclo[3.2.1]octane;~~

3-{(3E)-3-[1-(3-chlorobenzoyl)-3,3-dimethylpiperidin-4-ylidene]prop-1-yn-1-yl}benzonitrile;

3-{(3E)-3-[1-(3-chlorobenzoyl)-3,3-dimethylpiperidin-4-ylidene]prop-1-yn-1-yl}-5-fluorobenzonitrile;

(3-chlorophenyl){(4E)-4-[3-(3-methoxyphenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}methanone;

(3-chlorophenyl)[(4E)-4-{3-[3-(hydroxymethyl)phenyl]prop-2-yn-1-ylidene}-3,3-dimethylpiperidin-1-yl]methanone;

(3-chlorophenyl){(4E)-4-[3-(4-fluorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}methanone;

(3-chlorophenyl)[(4E)-3,3-dimethyl-4-(3-{3-[(pyrrolidin-1-yl)methyl]phenyl}prop-2-yn-1-ylidene)piperidin-1-yl]methanone;

(3-chlorophenyl){(4E)-3,3-dimethyl-4-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]piperidin-1-yl}methanone;

5-{(3E)-3-[1-(3-chlorobenzoyl)-3,3-dimethylpiperidin-4-ylidene]prop-1-yn-1-yl}pyridine-2-carbonitrile;

(3-chlorophenyl){(4E)-4-[3-(6-methoxypyridin-3-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}methanone;

(3-chlorophenyl){(4E)-4-[3-(3-fluoro-5-hydroxyphenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}methanone;

{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(3-hydroxyphenyl)methanone;

{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(4-methoxypyridin-2-yl)methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(6-methylpyridin-2-yl)methanone;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethyl-N-(6-methylpyridin-2-yl)piperidine-1-carboxamide;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(2,2-dimethylmorpholin-4-yl)methanone;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N-(2,2-dimethyltetrahydro-2H-pyran-4-yl)-3,3-dimethylpiperidine-1-carboxamide;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethyl-N-(pyridin-2-yl)piperidine-1-carboxamide;
2-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}carbonyl)pyridine-4-carbonitrile;
1-{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}-2-(2,2-dimethyltetrahydro-2H-pyran-4-yl)ethanone;
{(4E)-4-[3-(3-Chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(4-chloropyridin-2-yl)methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(4,5-dimethylfuran-2-yl)methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(3-methoxyphenyl)methanone;
3-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}carbonyl)benzonitrile;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N-(4-chloropyridin-2-yl)-3,3-dimethylpiperidine-1-carboxamide;
2,2-dimethylpropyl (4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethyl-N-(3-methylphenyl)piperidine-1-carboxamide;
2-methylpyridin-4-yl (4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-carboxylate;

(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N-(2,2-dimethylpropyl)-3,3-dimethylpiperidine-1-carboxamide;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(4-hydroxypiperidin-1-yl)methanone;
ethyl 4-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}sulfonyl)piperidine-1-carboxylate;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethyl-1-[(tetrahydro-2H-pyran-2-ylmethyl)sulfonyl]piperidine;
5-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}sulfonyl)-3-ethyl[1,2]oxazolo[5,4-b]pyridine;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethyl-1-{[(3-methyl-1,2-oxazol-5-yl)methyl]sulfonyl}piperidine;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N,3,3-trimethyl-N-(propan-2-yl)piperidine-1-sulfonamide;
4-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}sulfonyl)-2,6-dimethylmorpholine;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethyl-1-(phenylsulfonyl)piperidine;
(4E)-N-tert-butyl-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidine-1-sulfonamide;
4-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}sulfonyl)morpholine;
4-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}sulfonyl)-1-methyl-1H-benzotriazole;
3-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}sulfonyl)-5-(propan-2-yloxy)pyridine;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N-(cyclopropylmethyl)-N,3,3-trimethylpiperidine-1-sulfonamide;
5-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}sulfonyl)-2-methoxypyridine;
3-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}sulfonyl)-6,7-dihydro-5H-pyrazolo[5,1-b][1,3]oxazine;

(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-N-cyclohexyl-N,3,3-trimethylpiperidine-1-sulfonamide;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethyl-1-[(4-methylpiperidin-1-yl)sulfonyl]piperidine;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-1-[(2,2-dimethylpropyl)sulfonyl]-3,3-dimethylpiperidine;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethyl-1-[(tetrahydro-2H-pyran-3-ylmethyl)sulfonyl]piperidine;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-1-[(3,5-dimethyl-1,2-oxazol-4-yl)sulfonyl]-3,3-dimethylpiperidine;
6-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}sulfonyl)pyrazolo[1,5-a]pyrimidine-3-carbonitrile;
(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-1-[(1-ethyl-3,5-dimethyl-1H-pyrazol-4-yl)sulfonyl]-3,3-dimethylpiperidine;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(4,6-dimethoxypyrimidin-2-yl)methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(2-ethyl-5-methyl-2H-1,2,3-triazol-4-yl)methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(4-methoxypyrimidin-2-yl)methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(6,7-dihydro-5H-pyrazolo[5,1-b][1,3]oxazin-3-yl)methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}([1,2,4]triazolo[1,5-a]pyridin-2-yl)methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(2,6-dimethoxypyrimidin-4-yl)methanone;
4-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}carbonyl)pyridine-2-carbonitrile;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(1,5-dimethyl-1H-1,2,3-triazol-4-yl)methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(5,6-dihydro-8H-imidazo[2,1-c][1,4]oxazin-3-yl)methanone;

6-({(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}carbonyl)pyridine-2-carbonitrile;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(3-methoxy-1-methyl-1H-pyrazol-5-yl)methanone;
(3-chlorophenyl){(4E)-4-[3-(4-methoxypyridin-2-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}methanone;
(3-chlorophenyl)[(4E)-4-{3-[5-(hydroxymethyl)furan-2-yl]prop-2-yn-1-ylidene}-3,3-dimethylpiperidin-1-yl]methanone;
(3-chlorophenyl)[(4E)-4-({3-[3-(hydroxymethyl)phenyl]-1H-pyrazol-5-yl}methylidene)-3,3-dimethylpiperidin-1-yl]methanone;
3-(5-{(E)-[1-(3-chlorobenzoyl)-3,3-dimethylpiperidin-4-ylidene]methyl}-1H-pyrazol-3-yl)benzonitrile;
(3-chlorophenyl)[(4E)-3,3-dimethyl-4-{[3-(6-methylpyridin-2-yl)-1H-pyrazol-5-yl]methylidene}piperidin-1-yl]methanone;
[(4E)-4-{[5-(3-chlorophenyl)-1H-pyrazol-3-yl]methylidene}-3,3-dimethylpiperidin-1-yl](2,5-dimethylfuran-3-yl)methanone;
(3-chlorophenyl){(4E)-3,3-dimethyl-4-[(5-phenyl-1,2-oxazol-3-yl)methylidene]piperidin-1-yl}methanone;
(3-chlorophenyl)[(4E)-4-{[5-(3-chlorophenyl)-1,3-oxazol-2-yl]methylidene}-3,3-dimethylpiperidin-1-yl]methanone;
(3-chlorophenyl)[(4E)-4-{[5-(3-chlorophenyl)-1,2,4-oxadiazol-3-yl]methylidene}-3,3-dimethylpiperidin-1-yl]methanone;
(3-chlorophenyl)[(4E)-4-{[5-(3-chlorophenyl)-1,3,4-oxadiazol-2-yl]methylidene}-3,3-dimethylpiperidin-1-yl]methanone;
(3-chlorophenyl)[(4E)-4-(3-cyclohexylprop-2-yn-1-ylidene)-3,3-dimethylpiperidin-1-yl]methanone;
(3-chlorophenyl){(4E)-4-[3-(4-chloropyridin-2-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}methanone;
(3-chlorophenyl)[(4E)-3,3-dimethyl-4-{3-[6-(trifluoromethyl)pyridin-2-yl]prop-2-yn-1-ylidene}piperidin-1-yl]methanone;
(3-chlorophenyl){(4E)-4-[3-(6-methoxypyridin-2-yl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}methanone;

(3-chlorophenyl){(4E)-4-[3-(3-hydroxyphenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}methanone;
[(4E)-3,3-dimethyl-4-(3-phenylprop-2-yn-1-ylidene)piperidin-1-yl](phenyl)methanone;
3-[(3E)-3-{1-[(2,5-dimethylfuran-3-yl)carbonyl]-3,3-dimethylpiperidin-4-ylidene}prop-1-yn-1-yl]benzonitrile;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-dimethylpiperidin-1-yl}(phenyl)methanone;
3-{(3E)-3-[3,3-dimethyl-1-(3-methylbenzoyl)piperidin-4-ylidene]prop-1-yn-1-yl}benzonitrile;
3-{(3E)-3-[1-(3-methoxybenzoyl)-3,3-dimethylpiperidin-4-ylidene]prop-1-yn-1-yl}benzonitrile;
(4E)-4-{3-[3-(hydroxymethyl)phenyl]prop-2-yn-1-ylidene}-3,3-dimethyl-N-(6-methylpyridin-2-yl)piperidine-1-carboxamide;
(3-chlorophenyl){(4E)-4-[4-(3-chlorophenyl)but-3-yn-2-ylidene]-3,3-difluoropiperidin-1-yl}methanone;
(3-chlorophenyl){(4Z)-4-[4-(3-chlorophenyl)but-3-yn-2-ylidene]-3,3-difluoropiperidin-1-yl}methanone;
3-[(3E)-3-{1-[(2,5-dimethylfuran-3-yl)carbonyl]-3,3-dimethylpiperidin-4-ylidene}prop-1-yn-1-yl]-5-fluorobenzonitrile;
(3-chlorophenyl){(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-difluoropiperidin-1-yl}methanone;
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-difluoropiperidin-1-yl}(4-methoxypyridin-2-yl)methanone;
(3-chlorophenyl){(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-difluoropiperidin-1-yl}methanone; and
{(4E)-4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-3,3-difluoropiperidin-1-yl}(4-methoxypyridin-2-yl)methanone.

10. A compound according to claim 3, the compound being selected from the group consisting of:
ethyl 2,2,6,6-tetramethyl-4-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]piperidine-1-carboxylate ;

2-methyl-6-[3-(2,2,6,6-tetramethylpiperidin-4-ylidene)prop-1-yn-1-yl]pyridine;
tert-butyl 8-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]-5-azaspiro[3.5]nonane-5-carboxylate ;
methyl 8-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]-5-azaspiro[3.5]nonane-5-carboxylate (E:Z mixture);
4-[3-(3-chlorophenyl)prop-2-yn-1-ylidene]-1,2,2,6,6-pentamethylpiperidine;
2-methyl-6-[3-(1,2,2,6,6-pentamethylpiperidin-4-ylidene)prop-1-yn-1-yl]pyridine;
ethyl 3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]-8-azabicyclo[3.2.1]octane-8-carboxylate; and
8-(6-methyl-3-nitropyridin-2-yl)-3-[3-(6-methylpyridin-2-yl)prop-2-yn-1-ylidene]-8-azabicyclo[3.2.1]octane.

11.- A pharmaceutical composition comprising a compound according to any ~~one~~ of claims 1 to ~~9~~ 10 and a pharmaceutically acceptable carrier or diluent.

12.- A ~~compound for use in~~method for the treatment or prevention of a neurological or psychiatric disorder associated with glutamate dysfunction comprising administering to a subject in need of treatment an effective amount of a compound according to any of claims 1 to 10, or a composition according to claim 11.

13. Use of a compound according to any of claims 1 to 10, or a composition according to claim 11, for the manufacture of a medicament for the treatment or prevention of a neurological or psychiatric disorder associated with glutamate dysfunction.

~~13~~14.- ~~A~~ The method according to claim 12, ~~compound~~ or the use according to claim 13, wherein the disorder is selected from the group consisting of schizophrenia, cognitive decline, dementia, cognitive impairment, Fragile-X syndrome, Rett syndrome, Parkinson's disease, Phelan-McDermid syndrome and tuberous sclerosis.

~~14~~15. The method or use ~~A compound~~ according to any of claims 12 ~~or claim~~to ~~13~~14, wherein the disorder is treatable or preventable by positive allosteric modulation (PAM) or by negative allosteric modulation (NAM) of mGluR5.

16. A method for the treatment or prevention of a neurological or psychiatric disorder associated with glutamate dysfunction comprising administering to a subject in need of treatment an effective amount of a compound according to any of claims 1 to 10, or a composition according to claim 11, wherein the disorder is treatable or preventable by positive allosteric modulation (PAM) or by negative allosteric modulation (NAM) of mGluR5.

17. Use of a compound according to any of claims 1 to 10, or a composition according to claim 11, for the manufacture of a medicament for the treatment or prevention of a neurological or psychiatric disorder associated with glutamate dysfunction, wherein the disorder is treatable or preventable by positive allosteric modulation (PAM) or by negative allosteric modulation (NAM) of mGluR5.