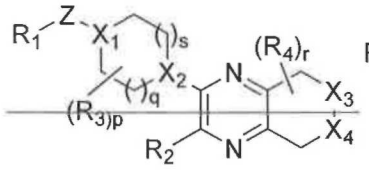
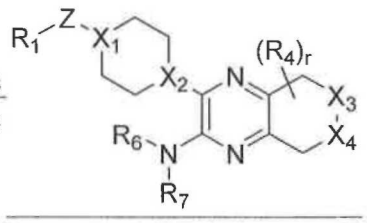
WHAT IS CLAIMED IS:

1. A~~The~~ compound of the formula~~I~~



I



or a pharmaceutically acceptable salt thereof, wherein

R_1 is ~~selected from the group consisting of~~ phenyl optionally substituted with 1 to 5 substituents independently selected from the group consisting of C_{1-4} alkyl, C_{1-4} alkoxy, cyano, halo, trifluoromethyl, and trifluoromethoxy~~optionally substituted C_{3-8} cycloalkyl, optionally substituted C_{3-6} heterocyclyl, optionally substituted C_{6-10} aryl, and optionally substituted C_{1-10} heteroaryl~~;

X_1 is N and X_2 is CH; or

X_1 is CH and X_2 is N; or

X_1 is N and X_2 is N;

when X_1 is N, Z is selected from the group consisting of C_{1-6} alkylene, C_{1-6} haloalkylene, -C(O)-, and $-S(O)_2-$;

when X_1 is CH, Z is selected from the group consisting of C_{1-6} alkylene, C_{1-6} haloalkylene, -O-, -C(O)-, -NH-, -S-, -S(O)-, and $-S(O)_2-$;

~~q is 0, 1, or 2;~~

~~s is 0, 1, or 2;~~R_2 ~~is OR_5 or NR_6R_7;~~

~~R_3, each time taken, is independently selected from the group consisting of C_{1-6} alkyl, C_{3-8} cycloalkyl, and trifluoromethyl;~~

~~p is 0, 1, or 2;~~

R_4, each time taken, is independently selected from the group consisting of C_{1-6} alkyl, hydroxy, and halo;

r is 0 or 1;

~~R_5 is selected from the group consisting of C_{1-6} alkyl and C_{3-8} cycloalkyl;~~

R_6 is selected from the group consisting of hydrogen and C_{1-6} alkyl;

R_7 is selected from the group consisting of ~~optionally substituted~~

(a) C_{1-6} alkyl~~,~~ optionally substituted with 1 to 7 substituents independently selected from C_{1-4} alkoxy and halo;

(b) C_{3-8} cycloalkyl~~, optionally substituted C_{6-10} aryl, optionally substituted C_{1-10} heteroaryl,~~; and

(c) ~~optionally substituted~~ C_{3-6} heterocyclyl;

X_3 is selected from the group consisting of CH and CR_4 and X_4 is NR_8; or

X_3 is NR_8 and X_4 is selected from the group consisting of CH and CR_4;

R_8 is selected from the group consisting of C_{1-6} alkyl, C_{1-6} haloalkyl, C_{3-8} cycloalkyl, $-S(O)_2-R_9$, -C(O)-R_{10}, -C(O)-N(R_{11})(R_{12}), and -C(O)-OR_{13};

R_9 is selected from the group consisting of C_{1-6} alkyl~~,~~ and C_{3-8} cycloalkyl~~, and optionally substituted phenyl~~;

R_{10} is selected from the group consisting of

(a) hydrogen~~,~~;

(b) ~~optionally substituted~~ C_{1-6} alkyl~~,~~ optionally substituted with 1 to 7 substituents independently selected from C1-4 alkoxy, cyano, and halo;

(c) C_{3-8} cycloalkyl~~, optionally substituted C_{6-10} aryl, optionally substituted~~;

(d) C_{1-10} heteroaryl~~,~~; and ~~optionally substituted~~

(e) C_{3-6} heterocyclyl;

R_{11} is selected from the group consisting of hydrogen and C_{1-6} alkyl;

R_{12} is selected from the group consisting of hydrogen, C_{1-6} alkyl and C_{3-8} cycloalkyl; and~~or R_{11} and R_{12} are taken together with the nitrogen to which they are attached form a 4 to 7 membered, saturated, ring optionally having 1 additional ring heteroatom selected from the group N, O, and S and optionally substituted on any of the ring carbon atoms with 1 to 5 substituents independently selected from the group consisting of cyano, halo, hydroxy, amino, optionally substituted C_{3-6} heterocyclyl, C_{1-9} amide, optionally substituted C_{1-6} alkyl, and C_{1-4} alkoxy and substituted on any additional ring nitrogen by a substituent selected from the group consisting of hydrogen, C_{3-8} cycloalkyl, and optionally substituted C_{1-6} alkyl;~~

R_{13} is selected from the group consisting of C_{1-6} alkyl and C_{3-8} cycloalkyl~~;~~

~~or a pharmaceutically acceptable salt thereof.~~

2. The ~~A~~-compound or pharmaceutifally acceptable salt according to claim 1, wherein X_1 is CH and X_2 is N~~ or a pharmaceutically acceptable salt thereof~~.

3. The ~~A~~-compound or pharmaceutifally acceptable salt according to claim 1, wherein X_1 is N and X_2 is N~~ or a pharmaceutically acceptable salt thereof~~.

4. The ~~A~~ compound or pharmaceutifally acceptable salt according to claim 3, wherein X_3 is selected from the group consisting of CH and CR_4, and X_4 is NR_8 ~~or a pharmaceutically acceptable salt thereof~~.

~~5. A compound according to any one of claims 1 to 4 wherein R_1 is optionally substituted C_{6-10} aryl or a pharmaceutically acceptable salt thereof.~~

56. The ~~A~~ compound or pharmaceutifally acceptable salt according to any one of claims 1 to ~~5~~ 4, wherein Z is C_{1-6} alkylene ~~or a pharmaceutically acceptable salt thereof~~.

67. The ~~A~~ compound or pharmaceutifally acceptable salt according to any one of claims 1 to ~~5~~ 4, wherein Z is -O- ~~or a pharmaceutically acceptable salt thereof~~.

78. The ~~A~~ compound or pharmaceutifally acceptable salt according to any one of claims 1 to ~~5~~ 4, wherein Z is -C(O)- ~~or a pharmaceutically acceptable salt thereof~~.

~~9. A compound according to any one of claims 1 to 8 wherein R_2 NR_6R_7 or a pharmaceutically acceptable salt thereof.~~

810. A compound according to claim 1 selected from the group consisting of:

cyclopropyl(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)methanone;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxyethan-1-one;

2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*-isopropyl-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-*N*-(2-methoxyethyl)-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)(tetrahydrofuran-2-yl)methanone;

3-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-3-oxopropanenitrile;

4-((1-(6-acetyl-3-(isopropylamino)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-yl)piperidin-4-yl)oxy)-3-fluorobenzonitrile;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxypropan-1-one;

cyclopropyl(3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)methanone;

1-(3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxyethan-1-one;

3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*-isopropyl-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

2-(4-(4-cyano-2-fluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-*N,N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

3-fluoro-4-((1-(3-(isopropylamino)-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-yl)piperidin-4-yl)oxy)benzonitrile;

(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)(morpholino)methanone;

3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-N-(2-methoxyethyl)-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

(3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)(tetrahydrofuran-2-yl)methanone;

3-(3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-3-oxopropanenitrile;

(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)(isoxazol-5-yl)methanone;

4-((1-(6-acetyl-2-(isopropylamino)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-yl)piperidin-4-yl)oxy)-3-fluorobenzonitrile;

4-((1-(6-(cyclopropanecarbonyl)-2-(isopropylamino)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-yl)piperidin-4-yl)oxy)-3-fluorobenzonitrile;

2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*-isopropyl-6-(isopropylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-6-(methyl-L-prolyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazine;

(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)(pyrrolidin-1-yl)methanone;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2,2-difluoroethan-1-one;

3-fluoro-4-((1-(2-(isopropylamino)-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-yl)piperidin-4-yl)oxy)benzonitrile;

3-fluoro-4-((1-(2-(isopropylamino)-6-(2-methoxyacetyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-yl)piperidin-4-yl)oxy)benzonitrile;

3-fluoro-4-((1-(2-(isopropylamino)-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-yl)piperidin-4-yl)oxy)benzonitrile;

3-(4-(4-cyano-2-fluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

1-(3-(2,2-difluoroethylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

N-(2,2-difluoroethyl)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

1-(3-(2,2-difluoroethylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxyethanone;

1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

N-(2,2-difluoroethyl)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxyethanone;

1-(3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*-isopropyl-5-methyl-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

1-(3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxyethanone;

cyclopropyl(3-(2,2-difluoroethylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)methanone;

cyclopropyl(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)methanone;

cyclopropyl(3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)methanone;

1-(3-(2,2-difluoroethylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2,2-difluoroethanone;

1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2,2-difluoroethanone;

1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2,2-difluoroethanone;

1-(3-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

1-(2-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

2-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-3-(isopropylamino)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone——;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone: 2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

1-(2-((2,2-difluoroethyl)amino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxyethanone;

(*R*)-1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxypropan-1-one;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2,2-difluoroethanone;

2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*-isopropyl-5-methyl-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-*N*,*N*,5-trimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-*N*,*N*,5-trimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*,*N*,5-trimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

3-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-*N*-isopropyl-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

1-(3-((2,2-difluoroethyl)amino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

N-(2,2-difluoroethyl)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

methyl 3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxylate;

3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-6-(2-fluoroethyl)-*N*-isopropyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

(*R*)-1-(2-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

1-(3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

N-cyclopropyl-2-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

N-cyclopropyl-3-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

N-cyclopropyl-3-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

(*S*)-*N*-cyclopropyl-3-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

(*R*)-*N*-cyclopropyl-3-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

3-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-*N*-isopropyl-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

1-(3-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

3-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-2-(isopropylamino)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

3-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-2-(isopropylamino)-N,N-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

2-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-*N*-isopropyl-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

2-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-*N*-isopropyl-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

1-(2-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

2-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-3-(isopropylamino)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

(5-chloro-2-fluorophenyl)(1-(2-(isopropylamino)-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-yl)piperidin-4-yl)methanone;

1-(3-(4-(5-chloro-2-fluorobenzoyl)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

3-(4-(5-chloro-2-fluorobenzoyl)piperidin-1-yl)-2-(isopropylamino)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*-isopropyl-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

1-(3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*-isopropyl-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-N,N-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

(5-chloro-2-fluorophenyl)(1-(3-(isopropylamino)-6-methyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-yl)piperidin-4-yl)methanone;

1-(2-(4-(5-chloro-2-fluorobenzoyl)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

2-(4-(5-chloro-2-fluorobenzoyl)piperidin-1-yl)-3-(isopropylamino)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

1-(2-(tert-butylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

2-(*tert*-butylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-N,N-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

1-(2-((2,2-difluoroethyl)amino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

1-(2-(cyclobutylamino)-3-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

2-(cyclobutylamino)-3-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

1-(3-(cyclobutylamino)-2-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

3-(cyclobutylamino)-2-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

3-(2,2-difluoroethylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*,*N*-dimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

N-(2,2-difluoroethyl)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2,2-difluoroethanone;

(*S*)-1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxypropan-1-one;

1-(3-(2,2-difluoroethylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2,2-difluoroethanone;

1-(3-(2,2-difluoroethylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2,2-difluoroethanone;

(*S*)-1-(3-(2,2-difluoroethylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxypropan-1-one ;

(*R*)-1-(3-(2,2-difluoroethylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxypropan-1-one;

1-(2-(cyclopropylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

2-(cyclopropylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*,*N*,5-trimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxamide;

N-cyclopropyl-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5,6-dimethyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*,*N*,7-trimethyl-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5H)-carboxamide;

N-(2,2-difluoroethyl)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-6,7-dimethyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7-methyl-7,8-dihydropyrido[4,3-b]pyrazin-6(5H)-yl)-2,2-difluoroethanone;

1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxyethanone;

N-(2,2-difluoroethyl)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7-methyl-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

(2*S*)-1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxypropan-1-one ;

(2*R*)-1-(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methoxypropan-1-one;

cyclopropyl(2-(2,2-difluoroethylamino)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7-methyl-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)methanone;

6-(2,2-difluoroethyl)-3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-*N*-isopropyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-amine;

(*S*)-1-(2-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

(*S*)-2-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carbaldehyde;

(*R*)-2-(4-((2,4-difluorophenyl)fluoromethyl)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carbaldehyde;

1-(3-(4-(3-fluorophenylsulfonyl)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

1-(2-(isopropylamino)-3-(4-(3-methoxyphenylsulfonyl)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

1-(3-(4-((2-fluorophenyl)sulfonyl)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

1-(3-(4-(4-fluorophenylsulfonyl)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

3-(4-(2,4-difluorophenoxy)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carbaldehyde;

1-(3-(4-(2-fluoro-4-methoxyphenylsulfonyl)piperidin-1-yl)-2-(isopropylamino)-7,8-dihydropyrido[4,3-b]pyrazin-6(5H)-yl)ethanone;

(*S*)-1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-((1-methoxypropan-2-yl)amino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

(*R*)-1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-((1-methoxypropan-2-yl)amino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

1-(3-(cyclobutylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

(*S*)-1-(3-(*sec*-butylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

(*R*)-1-(3-(*sec*-butylamino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)propan-1-one;

methyl 2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazine-6(5*H*)-carboxylate;

2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-6-(2-fluoroethyl)-*N*-isopropyl-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

1-(2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

1-(3-(cyclobutylamino)-2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-*N*-isopropyl-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

1-(2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)propan-1-one;

tert-butyl 4-(6-acetyl-3-(isopropylamino)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-yl)piperazine-1-carboxylate;

(1*s*,3*s*)-3-((6-acetyl-2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-yl)amino)cyclobutyl acetate;

1-(2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-3-(((1*s*,3*s*)-3-hydroxycyclobutyl)amino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-b]pyrazin-6(5*H*)-yl)-ethan-1-one-2,2,2-*d*3 1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-*d*3-ethan-1-one;

(1*s*,3*s*)-3-((6-acetyl-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-yl)amino)cyclobutyl acetate;

1-(2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)-2-methylpropan-1-one;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(((1*s*,3*s*)-3-hydroxycyclobutyl)amino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

1-(2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-3-(((1*r*,3*r*)-3-fluorocyclobutyl)amino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

4-((4-(6-acetyl-3-(isopropylamino)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-2-yl)piperazin-1-yl)methyl)-3-fluorobenzonitrile;

(1*r*,3*r*)-3-((6-acetyl-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-yl)amino)cyclobutyl acetate;

1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(((1*r*,3*r*)-3-hydroxycyclobutyl)amino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

(*S*)-1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(tetrahydrofuran-3-ylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

(*S*)-1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(tetrahydrofuran-3-ylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)propan-1-one;

1-(3-((3,3-difluorocyclobutyl)amino)-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethan-1-one;

N-cyclobutyl-2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-6-(methylsulfonyl)-5,6,7,8-tetrahydropyrido[3,4-*b*]pyrazin-3-amine;

(*R*)-1-(2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-3-(tetrahydrofuran-3-ylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

(*S*)-1-(2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-3-(tetrahydrofuran-3-ylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone;

and (*S*)-1-(2-(4-(2,4-difluorobenzyl)piperazin-1-yl)-3-(tetrahydrofuran-3-ylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)propan-1-one; and

~~or~~ a pharmaceutically acceptable salt of any one of the above-mentioned compounds.

9. A compound which is 1-(2-(4-(2,4-difluorophenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone or a pharmaceutically acceptable salt thereof.

10. A compound which is 1-(2-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-3-(isopropylamino)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone or a pharmaceutically acceptable salt thereof.

11. A compound which is 1-(3-(cyclobutylamino)-2-(4-(2-fluoro-4-methoxyphenoxy)piperidin-1-yl)-7,8-dihydropyrido[3,4-*b*]pyrazin-6(5*H*)-yl)ethanone or a pharmaceutically acceptable salt thereof.

12~~11~~. A pharmaceutical composition comprising a compound or pharmaceutically acceptable salt as defined in ~~according to~~ any one of claims 1 to 11~~10~~ and a pharmaceutically acceptable excipient.

13~~12~~. A ~~The use of a~~ compound or a pharmaceutically acceptable salt according to any one of claims 1 to 11~~10~~ for use as a medicament.