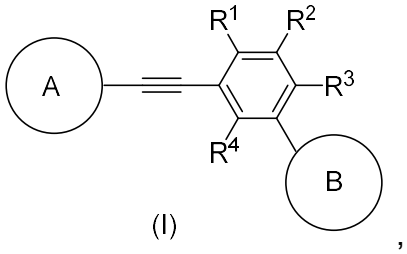
Claims

1. A compound of Formula (I) or a pharmaceutically acceptable salt thereof



(I) ,

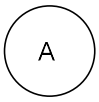
wherein

R^1 is H or $-CH_3$;

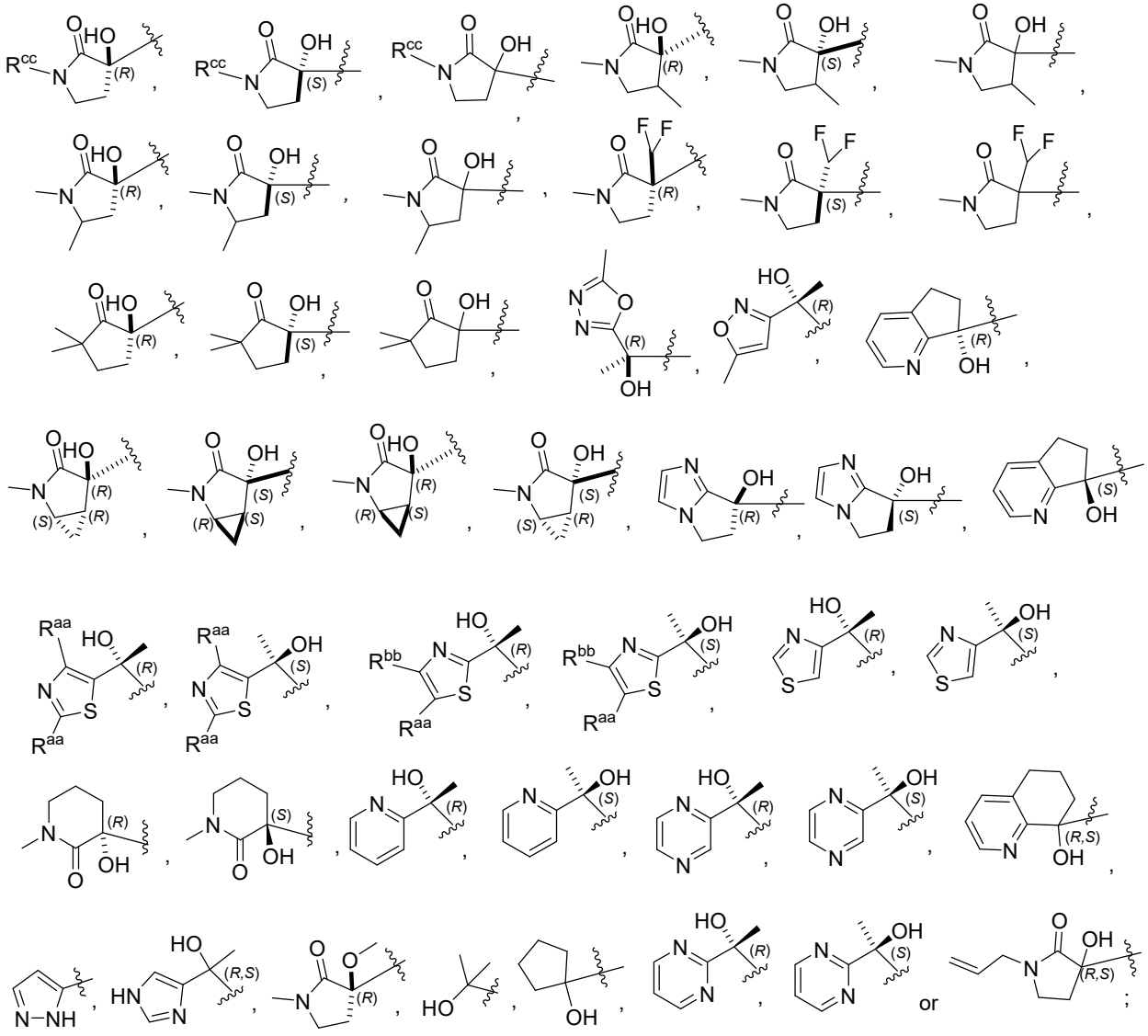
R^2 is H or $-CH_3$;

R^3 is H, $-C_1$-C_5alkyl, $-OCH_3$, or $-O$-C_1-C_3haloalkyl;

R^4 is H or $-CH_3$;

moiety 

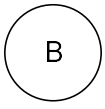
is

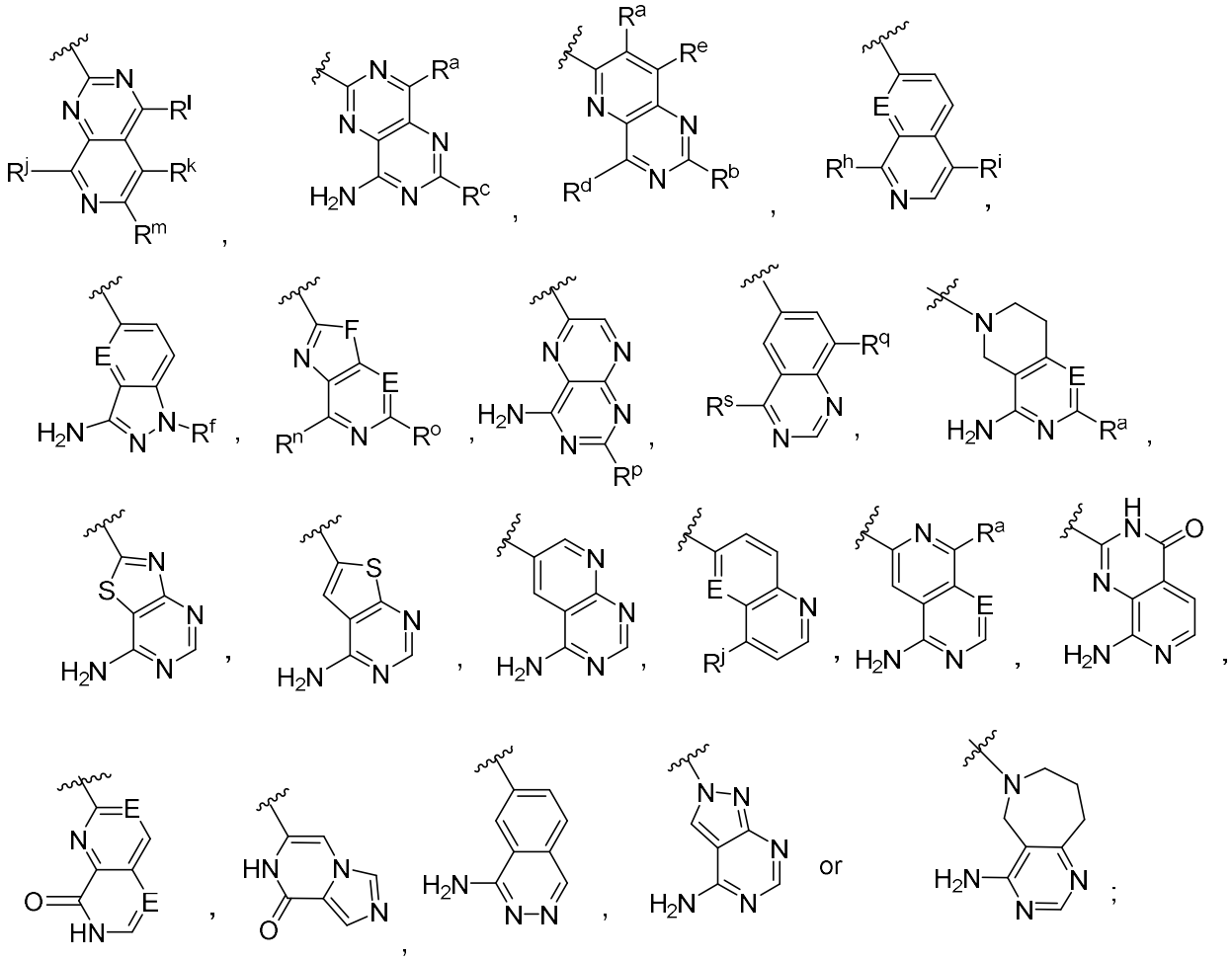


R^{aa} is H or -CH_3;

R^{bb} is H, -CH_3 or -CF_3;

R^{cc} is -CH_3, -CD_3 or -CH_2CF_3;

moiety  is



E is N or CH;

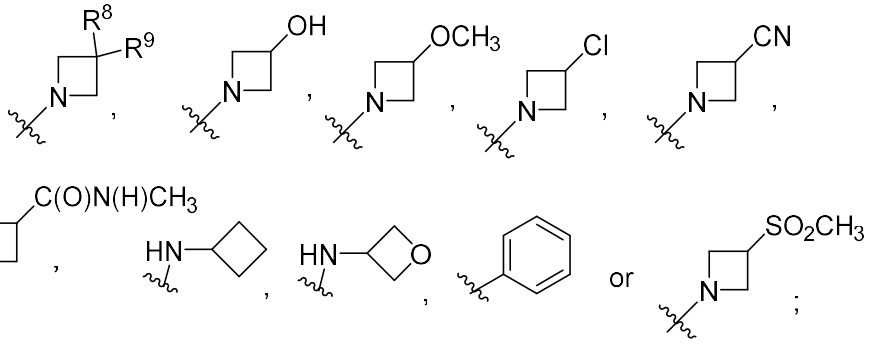
F is O, S, NH or NCH_3;

R^a is H or $-CH_3$;

R^b is H, D, -OH, F, $-C_1$-C_5alkyl, $-CH_2OCH_3$, $-C_1$-C_5haloalkyl, $-NH_2$, cyclopropyl, or $-CH_2OH$;

R^c is H, D or $-CH_3$;

R^d is H, -CN, -CF_3, -C_1-C_5alkyl, -C_3-C_6cycloalkyl, -O-C_1-C_3alkyl, -N(R^6)R^7,

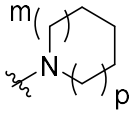


wherein

R^6 is H or -C_1-C_3alkyl;

R^7 is H, -C_1-C_3alkyl, -SO_2CH_3, -$COCH_3$, -C_1-C_4haloalkyl or -CH_2CN,

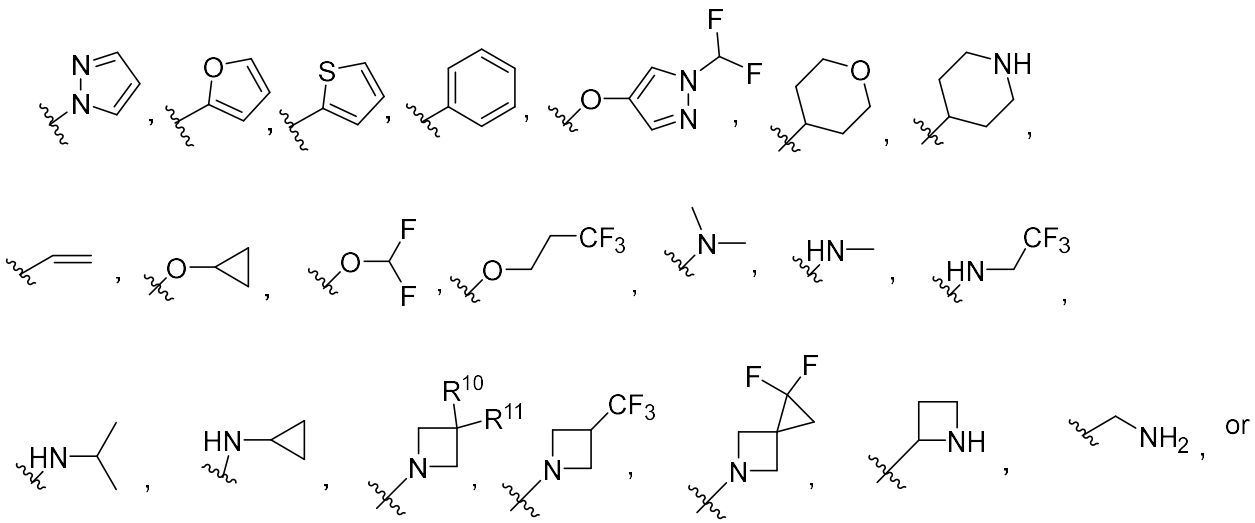
or R^6 and R^7 are taken together with the nitrogen to which they are attached to form

the moiety , wherein m is 0 or 1, and p is 0 or 1;

R^8 is H, F or -C_1-C_3alkyl;

R^9 is H, F or -C_1-C_3alkyl;

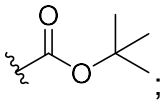
R^e is H, -CD_3, Br, -C_1-C_5alkyl, -C_3-C_6cycloalkyl,

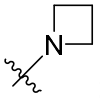


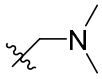
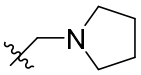
-C_1-C_5alkyl substituted with 1 to 3 R^g groups, wherein R^g is -NH_2, or F;

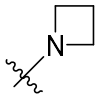
R^{10} is H or F;

R^{11} is H or F;

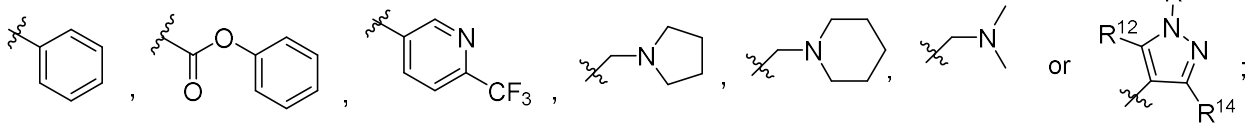
R^f is H, $-CH_3$ or ;

R^h is $-CH_3$, $-NH_2$ or ;

R^i is H, $-CH_3$, -CN, Br,  or ;

R^j is $-NH_2$ or ;

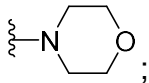
R^k is H, $-CF_3$, I, Cl, Br, -CN, $-C_1$-C_6alkyl,



R^{12} is H or $-CH_3$;

R^{13} is H, $-CH_3$, $-CH_2(C)(CH_3)_2OH$, $-(CH_2)_3CN$, or $-(CH_2)_2NH_2$;

R^{14} is H or $-CH_3$;

R^l is H, $-C_1$-C_4alkyl, $-CF_3$, , , or ;

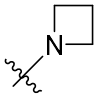
R^m is H or $-CH_3$;

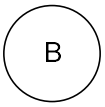
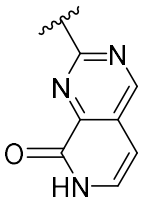
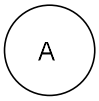
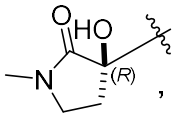
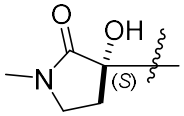
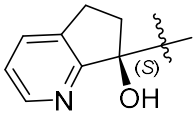
R^n is $-NH_2$;

R^o is H or $-CH_3$;

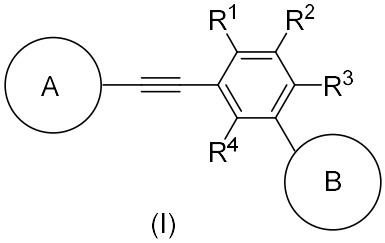
R^p is H or $-CH_3$;

R^q is H, -CN, F, Cl, $-OCH_3$, $-CF_3$, or $-CH_3$; and

R^s is $-NH_2$ or ;

provided that when moiety  is  and each R^1, R^2, R^3 and R^4 is H, then moiety  is , , or .

2. A compound of Formula (I) as claimed in claim 1 or a pharmaceutically acceptable salt thereof,



(I),

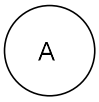
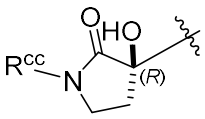
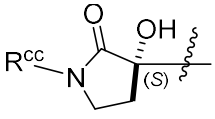
wherein

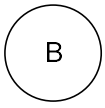
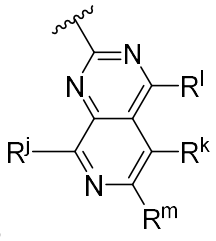
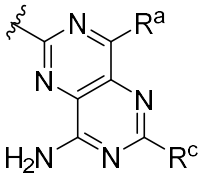
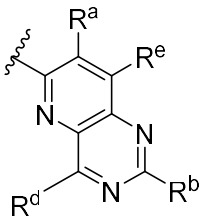
R^1 is H;

R^2 is H;

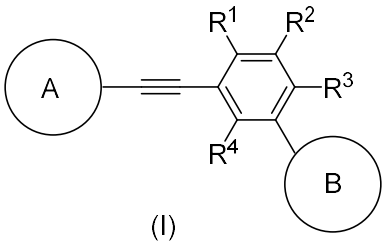
R^3 is H;

R^4 is H;

moiety  is  or ;

and moiety  is ,  or .

3. A compound of Formula (I) as claimed in claim 1 or a pharmaceutically acceptable salt thereof



(I) ,

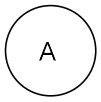
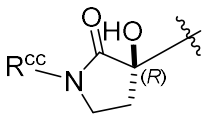
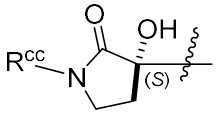
wherein

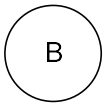
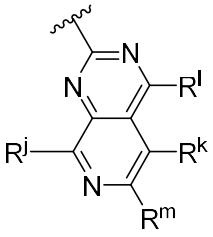
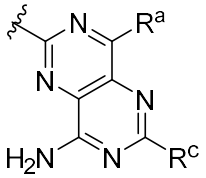
R^1 is H;

R^2 is H;

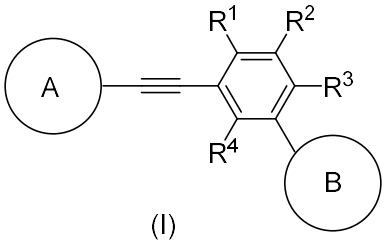
R^3 is H or -C_1-C_5alkyl;

R^4 is H;

moiety  is  or  ;

and moiety  is  or  .

4. A compound of Formula (I) as claimed in claim 1 or a pharmaceutically acceptable salt thereof,



(I) ,

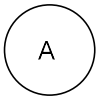
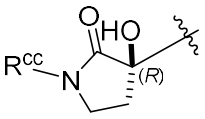
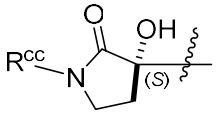
wherein

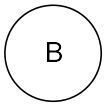
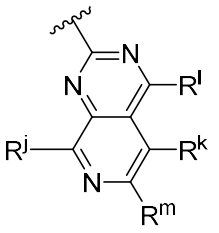
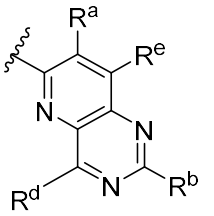
R^1 is H;

R^2 is H;

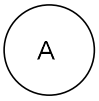
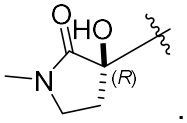
R^3 is H or -C_1-C_5alkyl;

R^4 is H;

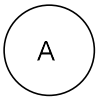
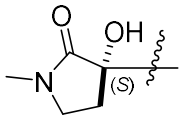
moiety  is  or ;

and moiety  is  or .

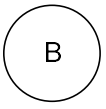
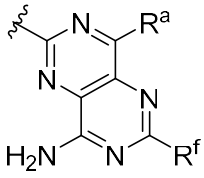
5. A compound as claimed in claim 1 or a pharmaceutically acceptable salt thereof,

wherein moiety  is .

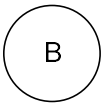
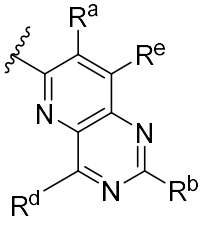
6. A compound as claimed in claim 1 or a pharmaceutically acceptable salt thereof,

wherein moiety  is .

7. A compound as claimed in claim 1 or a pharmaceutically acceptable salt thereof,

wherein moiety  is .

8. A compound as claimed in claim 1 or a pharmaceutically acceptable salt thereof,

wherein moiety  is .

9. A compound selected from

(*R*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*S*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(8-Amino-4-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Aminopyrido[3,2-d]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopyrimido[5,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-6-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopteridin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminoquinazolin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-a]imidazol-7-ol;

(*R*)-4-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-[2-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-3,4-dihydro-2,7-naphthyridin-2(1*H*)-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(3-Amino-1-methyl-pyrazolo[4,3-*b*]pyridin-5-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(3-Amino-1*H*-pyrazolo[4,3-*b*]pyridin-5-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-((3-(4-Ethoxypyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Dimethylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Azetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(methylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)-4-(trifluoromethoxy)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-2-[3-[2-(3-Hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]-7*H*-pyrido[3,4-*d*]pyrimidin-8-one;

(*S*)-2-[3-[2-(3-Hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]-7*H*-pyrido[3,4-*d*]pyrimidin-8-one;

(*R*)-4-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]-2-thiazol-2-yl-but-3-yn-2-ol;

1-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]cyclopentanol;

(*R*)-4-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

4-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]-2-methyl-but-3-yn-2-ol;

(*R*)-3-[2-[3-(1-Amino-7-isoquinolyl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-(trifluoromethyl)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-5-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((5-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-2-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-2-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-5-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-6-methylpyrido[3,4-d]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydrocyclopenta[b]pyridin-7-ol;

(*S*)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydrocyclopenta[b]pyridin-7-ol;

(*R*)-2-[3-[2-(7-Hydroxy-5,6-dihydrocyclopenta[*b*]pyridin-7-yl)ethynyl]phenyl]-7*H*-pyrido[3,4-*d*]pyrimidin-8-one;

(*R*)-4-(3-(8-Amino-4-methylpyrido[3,4-d]pyrimidin-2-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-(3-(8-Amino-4-(trifluoromethyl)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-(3-(8-Amino-5-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-(3-(8-Amino-6-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-5-methyl-phenyl]ethynyl]-5,6-dihydrocyclopenta[*b*]pyridin-7-ol;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-isobutylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-8-Amino-2-(3-((3-hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,4-*d*]pyrimidin-4(3*H*)-one;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-(trifluoromethoxy)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-morpholinopyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-(dimethylamino)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Amino-1*H*-imidazo[4,5-*c*]pyridin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-7-((3-(8-Amino-4-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5*H*-cyclopenta[*b*]pyridin-7-ol;

(*R*)-7-((3-(8-Amino-4-(trifluoromethyl)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5H-cyclopenta[*b*]pyridin-7-ol;

(*R*)-7-((3-(8-Amino-5-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5*H*-cyclopenta[*b*]pyridin-7-ol;

(*R*)-7-((3-(8-Amino-6-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5*H*-cyclopenta[*b*]pyridin-7-ol;

(S)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-3-[2-[3-(8-Amino-5-methyl-pyrido[3,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(S)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(*R*)-4-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]-2-thiazol-2-yl-but-3-yn-2-ol;

(*R*)-4-(3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methylphenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-[2-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(*S*)-3-[2-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(*R*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(2,2,2-trifluoroethyl)pyrrolidin-2-one;

(*S*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(2,2,2-trifluoroethyl)pyrrolidin-2-one;

(*R*)-4-(3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methylphenyl)-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-7-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-6,7-dihydro-5H-cyclopenta[b]pyridin-7-ol;

(*R*)-3-[2-[3-(8-Amino-5-methyl-pyrido[3,4-*d*]pyrimidin-2-yl)-5-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-(2,2,2-trifluoroethyl)pyrrolidin-2-one;

(*R*)-4-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-7-[2-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]ethynyl]-5,6-dihydrocyclopenta[*b*]pyridin-7-ol;

(R)-7-[2-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-4-(3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methylphenyl)-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-3-((3-(8-Amino-4-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-(methyl-d_3)pyrrolidin-2-one;

(*R*)-7-((3-(8-Amino-4-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5*H*-pyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-3-((3-(8-Amino-4-(methylamino)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-7-[2-[3-(8-Amino-5-methyl-pyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-3-[2-[3-(8-Amino-5-methyl-pyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(*R*)-4-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-4-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]-2-thiazol-2-yl-but-3-yn-2-ol;

(*R*)-7-[2-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-3-[2-[3-(8-Amino-4-methyl-pyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(2,2,2-trifluoroethyl)pyrrolidin-2-one;

(*R*)-4-(3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(8-Amino-5-bromopyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-4-(3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-3-[2-[3-(4-Aminophthalazin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-4-(3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(8-Amino-4-isopropylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(trifluoromethyl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-8-Amino-2-(3-((3-hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,4-*d*]pyrimidine-5-carbonitrile;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-5-iodopyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-3-((3-(8-Amino-5-chloropyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-4-[3-(4-Aminoquinazolin-6-yl)phenyl]-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-4-[3-(4-Aminoquinazolin-6-yl)phenyl]-2-thiazol-2-yl-but-3-yn-2-ol;

(*R*)-4-[3-(4-Aminoquinazolin-6-yl)phenyl]-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

2-(3-((1H-Pyrazol-5-yl)ethynyl)phenyl)-4-methylpyrido[3,4-*d*]pyrimidin-8-amine;

(*R*)-4-(3-(4-Aminopyrido[2,3-*d*]pyrimidin-6-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(4-Aminopyrido[2,3-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-methylquinazolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopyrido[3,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(8-Amino-5-bromo-1,7-naphthyridin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Amino-8-fluoro-quinazolin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-methoxyquinazolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(trifluoromethyl)quinazolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminothiazolo[4,5-*c*]pyridin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-chloroquinazolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-8-Amino-2-[3-[2-(3-hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]-1,7-naphthyridine-5-carbonitrile;

(R)-3-[2-[3-(5-Amino-2,6-naphthyridin-3-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(8-Amino-5-methyl-1,7-naphthyridin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-5-phenylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(1-methylpyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-[1-(2-hydroxy-2-methyl-propyl)pyrazol-4-yl]pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(1*H*-pyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(3,5-dimethyl-1*H*-pyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-4-Amino-6-(3-((3-hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)quinazoline-8-carbonitrile;

(*R*)-3-[2-[3-[8-Amino-5-(5-methyl-1*H*-pyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-Phenyl 8-amino-2-[3-[2-(3-hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]pyrido[3,4-*d*]pyrimidine-5-carboxylate;

(*R*)-3-((3-(8-Amino-5-ethylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-5-isobutylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-2-[2-[3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl]ethynyl]-2-hydroxy-5,5-dimethyl-cyclopentanone;

(*S*)-2-[2-[3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl]ethynyl]-2-hydroxy-5,5-dimethyl-cyclopentanone;

(*R*)-3-[2-[3-[8-Amino-5-(pyrrolidin-1-ylmethyl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-[1-(2-aminoethyl)pyrazol-4-yl]pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(dimethylaminomethyl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Amino-8-methyl-pyrido[3,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-4-(3-(8-Aminopyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(8-Amino-4,5-dimethylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-4-[4-[8-Amino-2-[3-[2-(3-hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]pyrido[3,4-*d*]pyrimidin-5-yl]pyrazol-1-yl]butanenitrile;

(*R*)-3-((3-(4-Aminothieno[2,3-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(7-Aminooxazolo[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(6-Amino-9-methyl-9*H*-purin-8-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-7-((3-(8-Aminopyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5H-cyclopenta[b]pyridin-7-ol;

(*R*)-3-[2-[3-[8-Amino-5-(1-piperidylmethyl)pyrido[3,4-d]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-7-[2-[3-(4-Aminopyrimido[5,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-3-[2-[3-[8-Amino-5-[6-(trifluoromethyl)-3-pyridyl]pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Amino-2-methyl-pteridin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-5-neopentylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-3-((5-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-2-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-5-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-2-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-7-((3-(8-Aminopyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5H-cyclopenta[b]pyridin-7-ol;

(*R*)-3-((3-(8-Amino-4,6-dimethylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(2-methylthiazol-5-yl)but-3-yn-2-ol;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(2-methylthiazol-5-yl)but-3-yn-2-ol;

(*R*)-3-((3-(4-Amino-7,8-dihydropyrido[4,3-*d*]pyrimidin-6(5*H*)-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(S)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-methylthiazol-5-yl)but-3-yn-2-ol;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-methylthiazol-5-yl)but-3-yn-2-ol;

(R)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

racemic-8-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-5,6,7,8-tetrahydroquinolin-8-ol;

(*S*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(5-methylthiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(5-methylthiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(8-Amino-4-methylpyrimido[5,4-*d*]pyrimidin-2-yl-6-d)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-*tert*-Butyl 3-amino-5-[3-[2-(3-hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]indazole-1-carboxylate;

(*R*)-3-((3-(4-Amino-2-(fluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(pyrrolidin-1-ylmethyl)-1,7-naphthyridin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(dimethylaminomethyl)-1,7-naphthyridin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(R)-3-((3-(4-Amino-2-(hydroxymethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(3-Amino-1H-indazol-5-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(R)-3-((3-(4-Amino-2-cyclopropylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-(trifluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Aminopyrimido[5,4-*d*]pyrimidin-2-yl)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2,7-dimethylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2*H*-pyrazolo[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-methylthiazol-2-yl)but-3-yn-2-ol;

(*S*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-methylthiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-[2-[3-(7-Amino-5-methyl-thiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-7-[2-[3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-a]imidazol-7-ol;

(*R*)-7-[2-[3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-5,6-dihydrocyclopenta[*b*]pyridin-7-ol;

1-[2-[3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]cyclopentanol;

(*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpiperidin-2-one;

(R)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpiperidin-2-one;

(*R*)-3-((3-(8-Aminopyrimido[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-7-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-4-[3-(4-Amino-2-methyl-pyrido[3,2-d]pyrimidin-6-yl)phenyl]-2-(2-pyridyl)but-3-yn-2-ol;

(*S*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-(2-pyridyl)but-3-yn-2-ol;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-(trifluoromethyl)thiazol-2-yl)but-3-yn-2-ol;

(*S*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-(trifluoromethyl)thiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

1-Allyl-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxypyrrolidin-2-one;

racemic-1-Allyl-3-((3-(4-aminopyrido[3,2-*d*]pyrimidin-6-yl-2-d)phenyl)ethynyl)-3-hydroxypyrrolidin-2-one;

(*R*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-pyrimidin-2-yl-but-3-yn-2-ol;

(*S*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-pyrimidin-2-yl-but-3-yn-2-ol;

(*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-d)phenyl)ethynyl)-3-hydroxy-1-methylpiperidin-2-one;

(*R*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-pyrazin-2-yl-but-3-yn-2-ol;

(*S*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-pyrazin-2-yl-but-3-yn-2-ol;

racemic-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(1H-imidazol-4-yl)but-3-yn-2-ol;

(*R*)-3-((3-(2,4-Diaminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-(difluoromethyl)-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-(difluoromethyl)-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-(methoxymethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-methoxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-(fluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-(methyl-d_3)pyrrolidin-2-one;

(*S*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-thiazol-4-yl-but-3-yn-2-ol;

(*R*)-3-((3-(4-Amino-2-ethylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-hydroxypyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-thiazol-4-yl-but-3-yn-2-ol;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(7-Aminothiazolo[4,5-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methyl-7,8-dihydropyrido[4,3-*d*]pyrimidin-6(5*H*)-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(*R*)-4-[3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-6-[3-[2-(3-Hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]-7*H*-imidazo[1,5-*a*]pyrazin-8-one;

(*R*)-3-((3-(8-Amino-1,5-naphthyridin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-7,8-dihydropyrido[4,3-*d*]pyrimidin-6(5*H*)-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-d]pyrimidin-4(3*H*)-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(pyrrolidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

((*R*)-3-Hydroxy-1-methyl-3-((3-(pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-5,7,8,9-tetrahydro-6*H*-pyrimido[5,4-*c*]azepin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(piperidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-((3-(4-(3,3-Dimethylazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Ethylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-3-((3-(4-(3-hydroxyazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(oxetan-3-ylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-Hydroxy-3-((3-(4-(3-methoxyazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-(Azetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(3,3-Difluoroazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-(Azetidin-1-yl)-1,7-naphthyridin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(1-(Azetidin-1-yl)isoquinolin-7-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Azetidin-1-yl)quinolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Cyclobutylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)-4-(trifluoromethoxy)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-*N*-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl)acetamide;

(*R*)-3-((3-(4-(3-Fluoroazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-2-((6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl)amino)acetonitrile;

(*R*)-3-((3-(4-((2,2-Difluoroethyl)amino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-1-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl)azetidine-3-carbonitrile;

(*R*)-3-((3-(4-(Azetidin-1-yl)quinazolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(3-Chloroazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(3-(methylsulfonyl)azetidin-1-yl)pyrido[3,2-d]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-1-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl)-N-methylazetidine-3-carboxamide;

(*R*)-3-((3-(8-(Azetidin-1-yl)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(8-(Azetidin-1-yl)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(5-Bromo-8-methyl-1,7-naphthyridin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4,8-Dimethylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-2-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)-8-methyl-1,7-naphthyridine-5-carbonitrile;

(*R*)-3-((3-(5,8-Dimethyl-1,7-naphthyridin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-bromopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Amino-8-bromopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(tetrahydro-2*H*-pyran-4-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Amino-8-(tetrahydro-2*H*-pyran-4-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-phenylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-*N*-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)-2-methylpyrido[3,2-*d*]pyrimidin-4-yl)acetamide;

(*R*)-*N*-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl-2-d)acetamide;

(*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(3*R*,5*R*)-3-((3-(4-Aminopyrido[3,2-d]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*R*,5*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*S*,5*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*S*,5*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*R*,5*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*S*,5*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*S*,5*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*R*,5*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(*R*)-*N*-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl-2-d)methanesulfonamide;

(*R*)-3-((3-(4-Cyclopropylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)-4-(trifluoromethoxy)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-3-((3-(4-isopropylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-1-methylpyrrolidin-2-one;

(1*R*,4*R*,5*S*)-4-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(1*S*,4*S*,5*R*)-4-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(1*S*,4*S*,5*R*)-4-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(1*R*,4*R*,5*S*)-4-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(*R*)-3-((3-(4-Amino-8-cyclopentylpyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(trifluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidine-4-carbonitrile;

(*R*)-3-Hydroxy-1-methyl-3-((3-(8-methyl-1,7-naphthyridin-2-yl)phenyl)ethynyl)pyrrolidin-2-one;

(1*R*,4*R*,5*S*)-4-((3-(4-amino-8-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(*R*)-3-((3-(4-Amino-8-(aminomethyl)pyrido[3,2-*d*]pyrimidin-6-yl-2-d)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-isopropylpyrido[3,2-*d*]pyrimidin-6-yl-2-d)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(trifluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2,8-dimethylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(methyl-d_3)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(piperidin-4-yl)pyrido[3,2-*d*]pyrimidin-6-yl-2-d)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-fluoropyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(difluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Amino-8-(difluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(3*R*,4*S**)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,4-dimethylpyrrolidin-2-one;

(3*R*,4*R**)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,4-dimethylpyrrolidin-2-one;

(3*S*,4*S**)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,4-dimethylpyrrolidin-2-one;

(3*S*,4*R**)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,4-dimethylpyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(dimethylamino)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(methylamino)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(isopropylamino)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(cyclopropylamino)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(difluoromethoxy)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(3,3-difluoroazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(8-Amino-4-methyl-pyrimido[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-cyclopropylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Amino-8-pyrazol-1-yl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(cyclopropoxy)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-[1-(difluoromethyl)pyrazol-4-yl]oxy-pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(3,3,3-trifluoropropoxy)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(2,2-difluoro-5-azaspiro[2.3]hexan-5-yl)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-ethylpyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-cyclobutylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-phenylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(thiophen-2-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(furan-2-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(3*R*)-3-((3-(4-Amino-8-(azetidin-2-yl)pyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-vinylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-[3-(trifluoromethyl)azetidin-1-yl]pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(azetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-((2,2,2-trifluoroethyl)amino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(1*R*,4*R*,5*S*)-4-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(3*R*,5*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one; and

pharmaceutically acceptable salts thereof.

10. A compound as claimed in claim 9, wherein said compound is selected from

(*R*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*S*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(8-Amino-4-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopyrimido[5,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-6-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopteridin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminoquinazolin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-a]imidazol-7-ol;

(*R*)-4-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-[2-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-3,4-dihydro-2,7-naphthyridin-2(1*H*)-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(3-Amino-1-methyl-pyrazolo[4,3-*b*]pyridin-5-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(3-Amino-1*H*-pyrazolo[4,3-*b*]pyridin-5-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-((3-(4-Ethoxypyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Dimethylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Azetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(methylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)-4-(trifluoromethoxy)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-2-[3-[2-(3-Hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]-7*H*-pyrido[3,4-*d*]pyrimidin-8-one;

(*S*)-2-[3-[2-(3-Hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]-7*H*-pyrido[3,4-*d*]pyrimidin-8-one;

(*R*)-4-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]-2-thiazol-2-yl-but-3-yn-2-ol;

1-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]cyclopentanol;

(*R*)-4-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

4-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]-2-methyl-but-3-yn-2-ol;

(*R*)-3-[2-[3-(1-Amino-7-isoquinolyl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-(trifluoromethyl)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-5-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((5-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-2-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-2-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-5-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-6-methylpyrido[3,4-d]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydrocyclopenta[b]pyridin-7-ol;

(*S*)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydrocyclopenta[b]pyridin-7-ol;

(*R*)-2-[3-[2-(7-Hydroxy-5,6-dihydrocyclopenta[*b*]pyridin-7-yl)ethynyl]phenyl]-7*H*-pyrido[3,4-*d*]pyrimidin-8-one;

(*R*)-4-(3-(8-Amino-4-methylpyrido[3,4-d]pyrimidin-2-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-(3-(8-Amino-4-(trifluoromethyl)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-(3-(8-Amino-5-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-(3-(8-Amino-6-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-5-methyl-phenyl]ethynyl]-5,6-dihydrocyclopenta[*b*]pyridin-7-ol;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-isobutylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-8-Amino-2-(3-((3-hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,4-*d*]pyrimidin-4(3*H*)-one;

(*R*)-3-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-(trifluoromethoxy)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-morpholinopyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-(dimethylamino)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Amino-1*H*-imidazo[4,5-*c*]pyridin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-7-((3-(8-Amino-4-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5*H*-cyclopenta[*b*]pyridin-7-ol;

(*R*)-7-((3-(8-Amino-4-(trifluoromethyl)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5H-cyclopenta[*b*]pyridin-7-ol;

(*R*)-7-((3-(8-Amino-5-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5*H*-cyclopenta[*b*]pyridin-7-ol;

(*R*)-7-((3-(8-Amino-6-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5*H*-cyclopenta[*b*]pyridin-7-ol;

(S)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-3-[2-[3-(8-Amino-5-methyl-pyrido[3,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(8-aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(S)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(*R*)-4-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]-2-thiazol-2-yl-but-3-yn-2-ol;

(*R*)-4-(3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methylphenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-[2-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(*S*)-3-[2-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(*R*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(2,2,2-trifluoroethyl)pyrrolidin-2-one;

(*S*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(2,2,2-trifluoroethyl)pyrrolidin-2-one;

(*R*)-4-(3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methylphenyl)-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-7-((3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-6,7-dihydro-5H-cyclopenta[b]pyridin-7-ol;

(*R*)-3-[2-[3-(8-Amino-5-methyl-pyrido[3,4-*d*]pyrimidin-2-yl)-5-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-(2,2,2-trifluoroethyl)pyrrolidin-2-one;

(*R*)-4-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-7-[2-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]ethynyl]-5,6-dihydrocyclopenta[*b*]pyridin-7-ol;

(R)-7-[2-[3-(1-Amino-7-isoquinolyl)-4-methyl-phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-4-(3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)-4-methylphenyl)-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-3-((3-(8-Amino-4-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-(methyl-d_3)pyrrolidin-2-one;

(*R*)-7-((3-(8-Amino-4-methylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5*H*-pyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-3-((3-(8-Amino-4-(methylamino)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-7-[2-[3-(8-Amino-5-methyl-pyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-3-[2-[3-(8-Amino-5-methyl-pyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(*R*)-4-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-4-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]-2-thiazol-2-yl-but-3-yn-2-ol;

(*R*)-7-[2-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-3-[2-[3-(8-Amino-4-methyl-pyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-(2,2,2-trifluoroethyl)pyrrolidin-2-one;

(*R*)-4-(3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(8-Amino-5-bromopyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-4-(3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-3-[2-[3-(4-Aminophthalazin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-4-(3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(8-Amino-4-isopropylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(trifluoromethyl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-8-Amino-2-(3-((3-hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,4-*d*]pyrimidine-5-carbonitrile;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-5-iodopyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-3-((3-(8-Amino-5-chloropyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-4-[3-(4-Aminoquinazolin-6-yl)phenyl]-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-4-[3-(4-Aminoquinazolin-6-yl)phenyl]-2-thiazol-2-yl-but-3-yn-2-ol;

(*R*)-4-[3-(4-Aminoquinazolin-6-yl)phenyl]-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

2-(3-((1H-Pyrazol-5-yl)ethynyl)phenyl)-4-methylpyrido[3,4-*d*]pyrimidin-8-amine;

(*R*)-4-(3-(4-Aminopyrido[2,3-*d*]pyrimidin-6-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(4-Aminopyrido[2,3-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-methylquinazolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopyrido[3,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(8-Amino-5-bromo-1,7-naphthyridin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Amino-8-fluoro-quinazolin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-methoxyquinazolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(trifluoromethyl)quinazolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminothiazolo[4,5-*c*]pyridin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-chloroquinazolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-8-Amino-2-[3-[2-(3-hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]-1,7-naphthyridine-5-carbonitrile;

(R)-3-[2-[3-(5-Amino-2,6-naphthyridin-3-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(8-Amino-5-methyl-1,7-naphthyridin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-5-phenylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(1-methylpyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-[1-(2-hydroxy-2-methyl-propyl)pyrazol-4-yl]pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(1*H*-pyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(3,5-dimethyl-1*H*-pyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-4-Amino-6-(3-((3-hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)quinazoline-8-carbonitrile;

(*R*)-3-[2-[3-[8-Amino-5-(5-methyl-1*H*-pyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-Phenyl 8-amino-2-[3-[2-(3-hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]pyrido[3,4-*d*]pyrimidine-5-carboxylate;

(*R*)-3-((3-(8-Amino-5-ethylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-5-isobutylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-2-[2-[3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl]ethynyl]-2-hydroxy-5,5-dimethyl-cyclopentanone;

(*S*)-2-[2-[3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl]ethynyl]-2-hydroxy-5,5-dimethyl-cyclopentanone;

(*R*)-3-[2-[3-[8-Amino-5-(pyrrolidin-1-ylmethyl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-[1-(2-aminoethyl)pyrazol-4-yl]pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(dimethylaminomethyl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Amino-8-methyl-pyrido[3,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-4-(3-(8-Aminopyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(8-Amino-4,5-dimethylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-4-[4-[8-Amino-2-[3-[2-(3-hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]pyrido[3,4-*d*]pyrimidin-5-yl]pyrazol-1-yl]butanenitrile;

(*R*)-3-((3-(4-Aminothieno[2,3-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(7-Aminooxazolo[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(6-Amino-9-methyl-9*H*-purin-8-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-7-((3-(8-Aminopyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5H-cyclopenta[b]pyridin-7-ol;

(*R*)-3-[2-[3-[8-Amino-5-(1-piperidylmethyl)pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-7-[2-[3-(4-Aminopyrimido[5,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-*a*]imidazol-7-ol;

(*R*)-3-[2-[3-[8-Amino-5-[6-(trifluoromethyl)-3-pyridyl]pyrido[3,4-*d*]pyrimidin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Amino-2-methyl-pteridin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-5-neopentylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-3-((5-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-2-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-5-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-2-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-7-((3-(8-Aminopyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-6,7-dihydro-5H-cyclopenta[b]pyridin-7-ol;

(*R*)-3-((3-(8-Amino-4,6-dimethylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(2-methylthiazol-5-yl)but-3-yn-2-ol;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(2-methylthiazol-5-yl)but-3-yn-2-ol;

(*R*)-3-((3-(4-Amino-7,8-dihydropyrido[4,3-*d*]pyrimidin-6(5*H*)-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(S)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-methylthiazol-5-yl)but-3-yn-2-ol;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-methylthiazol-5-yl)but-3-yn-2-ol;

(R)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(thiazol-2-yl)but-3-yn-2-ol;

racemic-8-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-5,6,7,8-tetrahydroquinolin-8-ol;

(*S*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(5-methylthiazol-2-yl)but-3-yn-2-ol;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(5-methylthiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(8-Amino-4-methylpyrimido[5,4-*d*]pyrimidin-2-yl-6-d)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-*tert*-Butyl 3-amino-5-[3-[2-(3-hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]indazole-1-carboxylate;

(*R*)-3-((3-(4-Amino-2-(fluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(pyrrolidin-1-ylmethyl)-1,7-naphthyridin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[8-Amino-5-(dimethylaminomethyl)-1,7-naphthyridin-2-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(R)-3-((3-(4-Amino-2-(hydroxymethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(3-Amino-1H-indazol-5-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(R)-3-((3-(4-Amino-2-cyclopropylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-(trifluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-Aminopyrimido[5,4-*d*]pyrimidin-2-yl)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2,7-dimethylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2*H*-pyrazolo[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-methylthiazol-2-yl)but-3-yn-2-ol;

(*S*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-methylthiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-[2-[3-(7-Amino-5-methyl-thiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-7-[2-[3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-a]imidazol-7-ol;

(*R*)-7-[2-[3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-5,6-dihydrocyclopenta[*b*]pyridin-7-ol;

1-[2-[3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]cyclopentanol;

(*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpiperidin-2-one;

(R)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpiperidin-2-one;

(*R*)-3-((3-(8-Aminopyrimido[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-7-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-4-[3-(4-Amino-2-methyl-pyrido[3,2-d]pyrimidin-6-yl)phenyl]-2-(2-pyridyl)but-3-yn-2-ol;

(*S*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-(2-pyridyl)but-3-yn-2-ol;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-(trifluoromethyl)thiazol-2-yl)but-3-yn-2-ol;

(*S*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(4-(trifluoromethyl)thiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methoxyphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

1-Allyl-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxypyrrolidin-2-one;

racemic-1-Allyl-3-((3-(4-aminopyrido[3,2-*d*]pyrimidin-6-yl-2-d)phenyl)ethynyl)-3-hydroxypyrrolidin-2-one;

(*R*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-pyrimidin-2-yl-but-3-yn-2-ol;

(*S*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-pyrimidin-2-yl-but-3-yn-2-ol;

(*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-d)phenyl)ethynyl)-3-hydroxy-1-methylpiperidin-2-one;

(*R*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-pyrazin-2-yl-but-3-yn-2-ol;

(*S*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-pyrazin-2-yl-but-3-yn-2-ol;

racemic-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(1H-imidazol-4-yl)but-3-yn-2-ol;

(*R*)-3-((3-(2,4-Diaminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-(difluoromethyl)-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-(difluoromethyl)-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-(methoxymethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-methoxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-(fluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-(methyl-d_3)pyrrolidin-2-one;

(*S*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-thiazol-4-yl-but-3-yn-2-ol;

(*R*)-3-((3-(4-Amino-2-ethylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-hydroxypyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-4-[3-(4-Amino-2-methyl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]-2-thiazol-4-yl-but-3-yn-2-ol;

(*R*)-4-(3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-((3-(7-Aminothiazolo[4,5-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methyl-7,8-dihydropyrido[4,3-*d*]pyrimidin-6(5*H*)-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-(trideuteriomethyl)pyrrolidin-2-one;

(*R*)-4-[3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]-2-(5-methylisoxazol-3-yl)but-3-yn-2-ol;

(*R*)-6-[3-[2-(3-Hydroxy-1-methyl-2-oxo-pyrrolidin-3-yl)ethynyl]phenyl]-7*H*-imidazo[1,5-*a*]pyrazin-8-one;

(*R*)-3-((3-(8-Amino-1,5-naphthyridin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-7,8-dihydropyrido[4,3-*d*]pyrimidin-6(5*H*)-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-d]pyrimidin-4(3*H*)-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(pyrrolidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

((*R*)-3-Hydroxy-1-methyl-3-((3-(pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-5,7,8,9-tetrahydro-6*H*-pyrimido[5,4-*c*]azepin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(piperidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-((3-(4-(3,3-Dimethylazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Ethylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-3-((3-(4-(3-hydroxyazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(oxetan-3-ylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-Hydroxy-3-((3-(4-(3-methoxyazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-(Azetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(3,3-Difluoroazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(8-(Azetidin-1-yl)-1,7-naphthyridin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(1-(Azetidin-1-yl)isoquinolin-7-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Azetidin-1-yl)quinolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Cyclobutylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)-4-(trifluoromethoxy)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-*N*-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl)acetamide;

(*R*)-3-((3-(4-(3-Fluoroazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-2-((6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl)amino)acetonitrile;

(*R*)-3-((3-(4-((2,2-Difluoroethyl)amino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-1-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl)azetidine-3-carbonitrile;

(*R*)-3-((3-(4-(Azetidin-1-yl)quinazolin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(3-Chloroazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(3-(methylsulfonyl)azetidin-1-yl)pyrido[3,2-d]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-1-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl)-N-methylazetidine-3-carboxamide;

(*R*)-3-((3-(8-(Azetidin-1-yl)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(8-(Azetidin-1-yl)pyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(5-Bromo-8-methyl-1,7-naphthyridin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4,8-Dimethylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-2-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)-8-methyl-1,7-naphthyridine-5-carbonitrile;

(*R*)-3-((3-(5,8-Dimethyl-1,7-naphthyridin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-bromopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Amino-8-bromopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(tetrahydro-2*H*-pyran-4-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Amino-8-(tetrahydro-2*H*-pyran-4-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-phenylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-*N*-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)-2-methylpyrido[3,2-*d*]pyrimidin-4-yl)acetamide;

(*R*)-*N*-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl-2-d)acetamide;

(*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(3*R*,5*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*R*,5*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*S*,5*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*S*,5*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*R*,5*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*S*,5*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*S*,5*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(3*R*,5*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one;

(*R*)-*N*-(6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidin-4-yl-2-d)methanesulfonamide;

(*R*)-3-((3-(4-Cyclopropylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)-4-(trifluoromethoxy)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-3-((3-(4-isopropylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-1-methylpyrrolidin-2-one;

(1*R*,4*R*,5*S*)-4-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(1*S*,4*S*,5*R*)-4-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(1*S*,4*S*,5*R*)-4-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(1*R*,4*R*,5*S*)-4-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(*R*)-3-((3-(4-Amino-8-cyclopentylpyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(trifluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-6-(3-((3-Hydroxy-1-methyl-2-oxopyrrolidin-3-yl)ethynyl)phenyl)pyrido[3,2-*d*]pyrimidine-4-carbonitrile;

(*R*)-3-Hydroxy-1-methyl-3-((3-(8-methyl-1,7-naphthyridin-2-yl)phenyl)ethynyl)pyrrolidin-2-one;

(1*R*,4*R*,5*S*)-4-((3-(4-Amino-8-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-4-hydroxy-2-methyl-2-azabicyclo[3.1.0]hexan-3-one;

(*R*)-3-((3-(4-Amino-8-(aminomethyl)pyrido[3,2-*d*]pyrimidin-6-yl-2-d)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-isopropylpyrido[3,2-*d*]pyrimidin-6-yl-2-d)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(trifluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2,8-dimethylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(methyl-d_3)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(piperidin-4-yl)pyrido[3,2-*d*]pyrimidin-6-yl-2-d)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-fluoropyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(difluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Amino-8-(difluoromethyl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(3*R*,4*S**)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,4-dimethylpyrrolidin-2-one;

(3*R*,4*R**)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,4-dimethylpyrrolidin-2-one;

(3*S*,4*S**)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,4-dimethylpyrrolidin-2-one;

(3*S*,4*R**)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1,4-dimethylpyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(dimethylamino)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(methylamino)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(isopropylamino)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(cyclopropylamino)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(difluoromethoxy)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(3,3-difluoroazetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(8-Amino-4-methyl-pyrimido[5,4-*d*]pyrimidin-2-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-cyclopropylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Amino-8-pyrazol-1-yl-pyrido[3,2-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(cyclopropoxy)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-[1-(difluoromethyl)pyrazol-4-yl]oxy-pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(3,3,3-trifluoropropoxy)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(2,2-difluoro-5-azaspiro[2.3]hexan-5-yl)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-ethylpyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-cyclobutylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-phenylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(thiophen-2-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-(furan-2-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(3*R*)-3-((3-(4-Amino-8-(azetidin-2-yl)pyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-vinylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-[3-(trifluoromethyl)azetidin-1-yl]pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-[4-Amino-8-(azetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one; and

pharmaceutically acceptable salts thereof.

11. A compound as claimed in claim 9, wherein said compound is selected from

(*R*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*S*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)-4-methyl-phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-4-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(8-Amino-4-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*S*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopyrimido[5,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-6-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminopteridin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(4-Aminoquinazolin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-7-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-5,6-dihydropyrrolo[1,2-a]imidazol-7-ol;

(*R*)-4-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]-2-(5-methyl-1,3,4-oxadiazol-2-yl)but-3-yn-2-ol;

(*R*)-3-[2-[3-(8-Amino-1,7-naphthyridin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-((3-(8-Amino-3,4-dihydro-2,7-naphthyridin-2(1*H*)-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-[2-[3-(3-Amino-1-methyl-pyrazolo[4,3-b]pyridin-5-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-[2-[3-(3-Amino-1*H*-pyrazolo[4,3-*b*]pyridin-5-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one;

(*R*)-3-Hydroxy-1-methyl-3-((3-(4-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-((3-(4-Ethoxypyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(*R*)-3-((3-(4-(Dimethylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

(R)-3-((3-(4-(Azetidin-1-yl)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

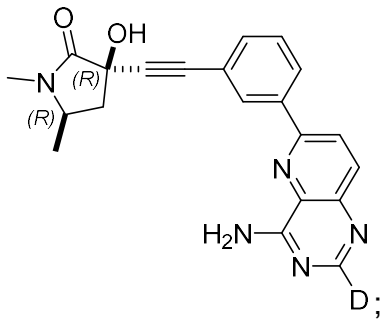
(*R*)-3-Hydroxy-1-methyl-3-((3-(4-(methylamino)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)pyrrolidin-2-one;

(*R*)-3-((3-(4-Amino-8-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one;

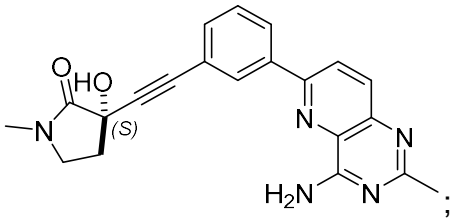
(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)-4-(trifluoromethoxy)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one; and pharmaceutically acceptable salts thereof.

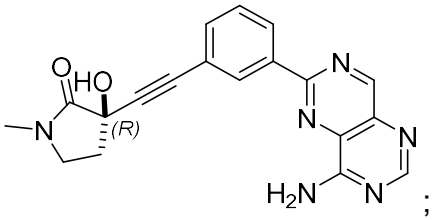
12. A compound as claimed in claim 9, wherein said compound is selected from

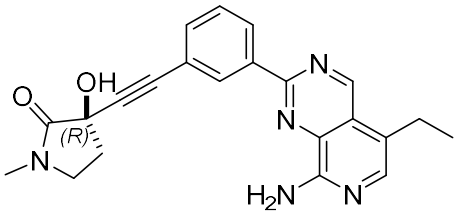
(3*R*,5*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one having a formula of

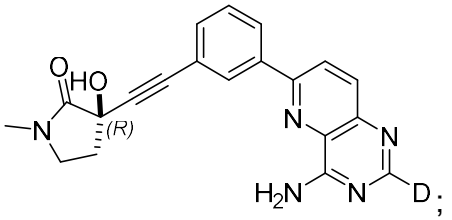


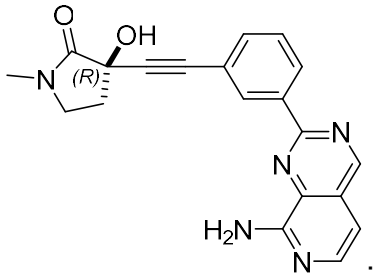
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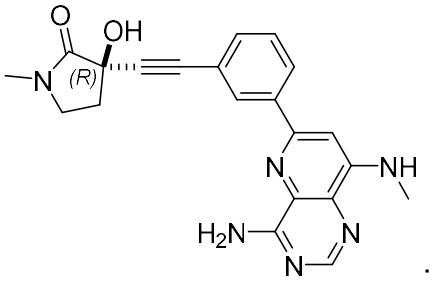
(*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

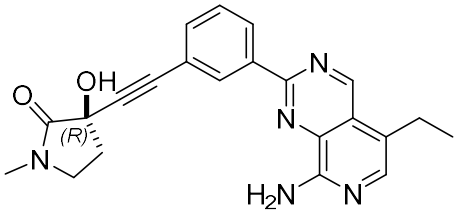
(*R*)-3-[2-[3-(4-Aminopyrimido[5,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one having a formula of ;

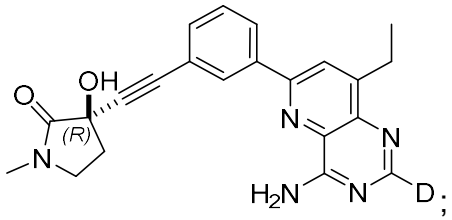
(*R*)-3-((3-(8-Amino-5-ethylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

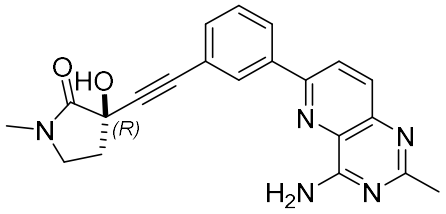
(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

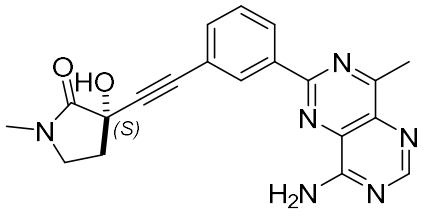
(*R*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one having a formula of ;

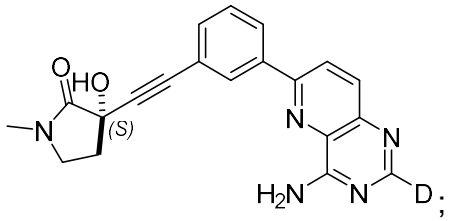
(*R*)-3-[2-[3-[4-Amino-8-(methylamino)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one having a formula of ;

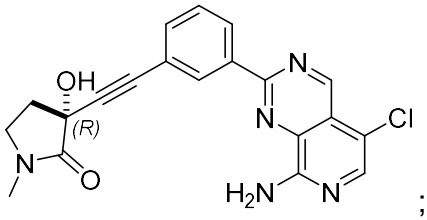
(*R*)-3-((3-(8-Amino-5-ethylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

(*R*)-3-((3-(4-Amino-8-ethylpyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

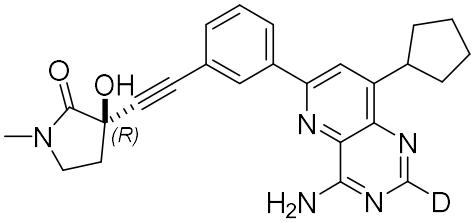
(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

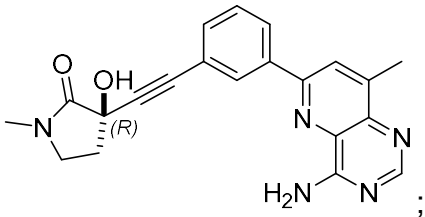
(*S*)-3-((3-(8-Amino-4-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

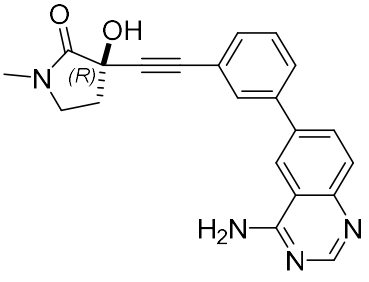
(*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

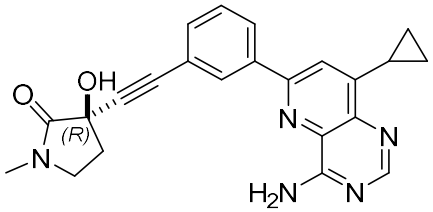
(R)-3-((3-(8-Amino-5-chloropyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

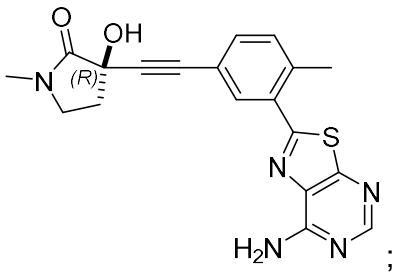
(*R*)-3-((3-(4-Amino-8-cyclopentylpyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of

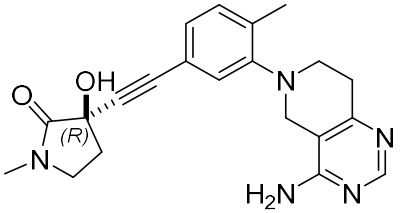
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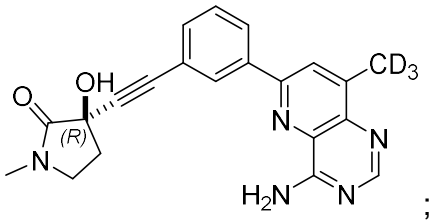
(*R*)-3-((3-(4-Amino-8-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

(*R*)-3-[2-[3-(4-Aminoquinazolin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one having a formula of ;

(*R*)-3-((3-(4-Amino-8-cyclopropylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

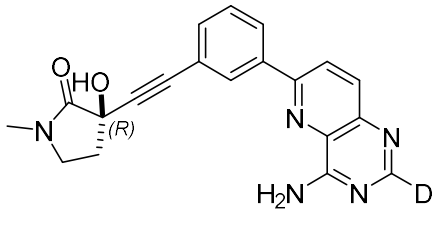
(*R*)-3-((3-(4-Amino-7,8-dihydropyrido[4,3-*d*]pyrimidin-6(5*H*)-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

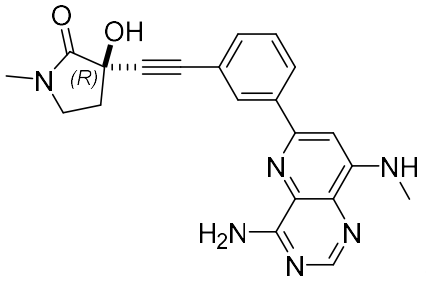
(*R*)-3-((3-(4-Amino-8-(methyl-d_3)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;

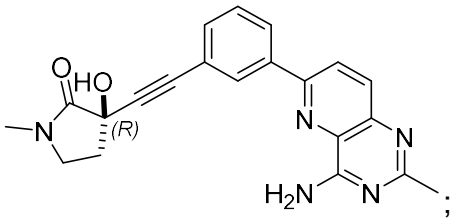
and

pharmaceutically acceptable salts thereof.

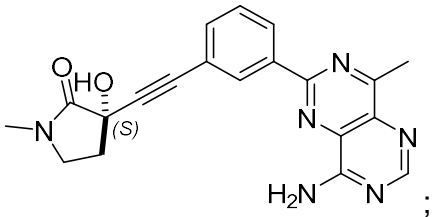
13. A compound as claimed in claim 12, wherein said compound is selected from

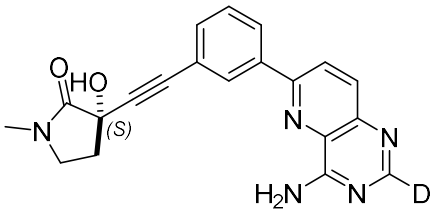
(*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ; and
pharmaceutically acceptable salts thereof.

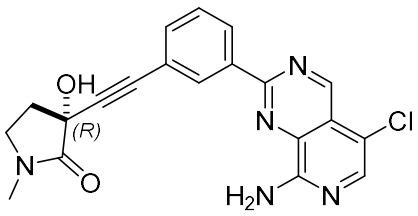
14. A compound as claimed in claim 12, wherein said compound is selected from
(*R*)-3-[2-[3-[4-Amino-8-(methylamino)pyrido[3,2-*d*]pyrimidin-6-yl]phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one having a formula of ;
and
pharmaceutically acceptable salts thereof.

15. A compound as claimed in claim 12, wherein said compound is selected from
(*R*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ;
and
pharmaceutically acceptable salts thereof.

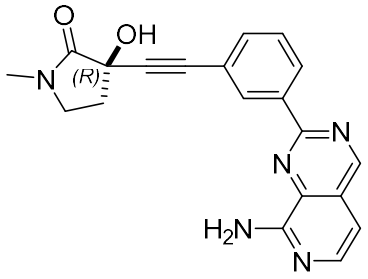
16. A compound as claimed in claim 12, wherein said compound is selected from

(*S*)-3-((3-(8-Amino-4-methylpyrimido[5,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of  ;
and
pharmaceutically acceptable salts thereof.

17. A compound as claimed in claim 12, wherein said compound is selected from
(*S*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of  ; and
pharmaceutically acceptable salts thereof.

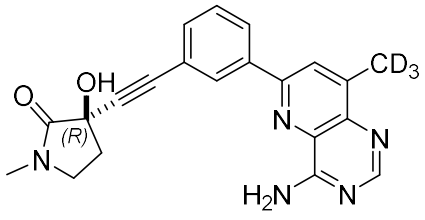
18. A compound as claimed in claim 12, wherein said compound is selected from
(R)-3-((3-(8-Amino-5-chloropyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of  ; and
pharmaceutically acceptable salts thereof.

19. A compound as claimed in claim 12, wherein said compound is selected from

(*R*)-3-[2-[3-(8-Aminopyrido[3,4-*d*]pyrimidin-2-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one having a formula of  ; and

pharmaceutically acceptable salts thereof.

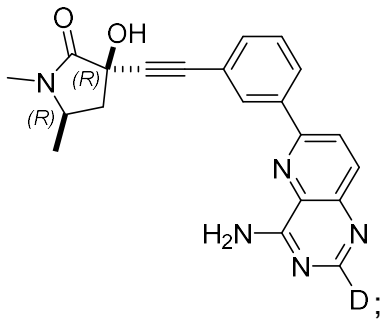
20. A compound as claimed in claim 12, wherein said compound is selected from

(*R*)-3-((3-(4-Amino-8-(methyl-d_3)pyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of  ;

and

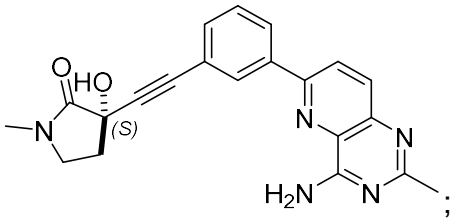
pharmaceutically acceptable salts thereof.

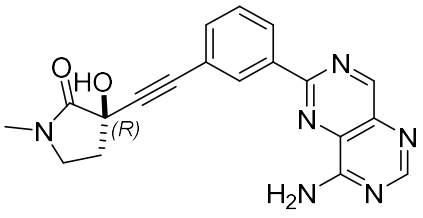
21. A compound as claimed in claim 12, wherein said compound is selected from

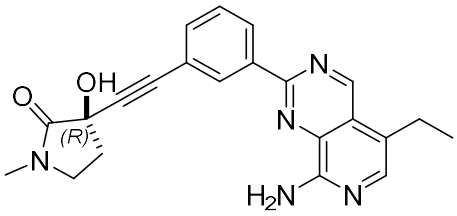
(3*R*,5*R*)-3-((3-(4-Aminopyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1,5-dimethylpyrrolidin-2-one having a formula of  ; and

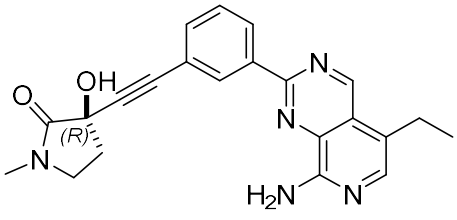
pharmaceutically acceptable salts thereof.

22. A compound as claimed in claim 12, wherein said compound is selected from

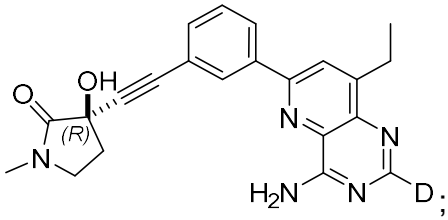
(*S*)-3-((3-(4-Amino-2-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of  ;
and
pharmaceutically acceptable salts thereof.

23. A compound as claimed in claim 12, wherein said compound is selected from
(*R*)-3-[2-[3-(4-Aminopyrimido[5,4-*d*]pyrimidin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-pyrrolidin-2-one having a formula of  ; and
pharmaceutically acceptable salts thereof.

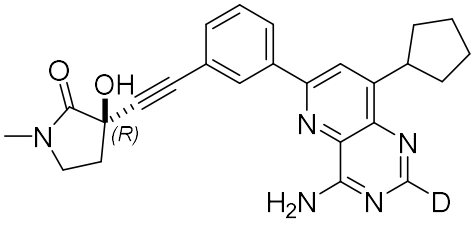
24. A compound as claimed in claim 12, wherein said compound is selected from
(*R*)-3-((3-(8-Amino-5-ethylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of  ; and
pharmaceutically acceptable salts thereof.

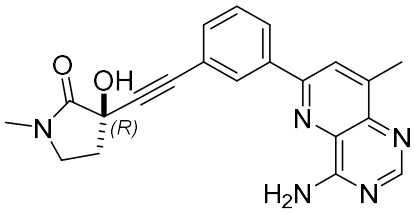
25. A compound as claimed in claim 12, wherein said compound is selected from
(*R*)-3-((3-(8-Amino-5-ethylpyrido[3,4-*d*]pyrimidin-2-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of  ; and

pharmaceutically acceptable salts thereof.

26. A compound as claimed in claim 12, wherein said compound is selected from (*R*)-3-((3-(4-Amino-8-ethylpyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of ; and
pharmaceutically acceptable salts thereof.

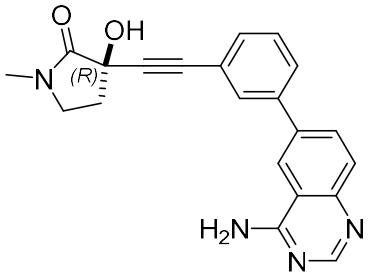
27. A compound as claimed in claim 12, wherein said compound is selected from (*R*)-3-((3-(4-Amino-8-cyclopentylpyrido[3,2-*d*]pyrimidin-6-yl-2-*d*)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of

 ; and
pharmaceutically acceptable salts thereof.

28. A compound as claimed in claim 12, wherein said compound is selected from (*R*)-3-((3-(4-Amino-8-methylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of  ; and
pharmaceutically acceptable salts thereof.

29. A compound as claimed in claim 12, wherein said compound is selected from

(*R*)-3-[2-[3-(4-Aminoquinazolin-6-yl)phenyl]ethynyl]-3-hydroxy-1-methyl-

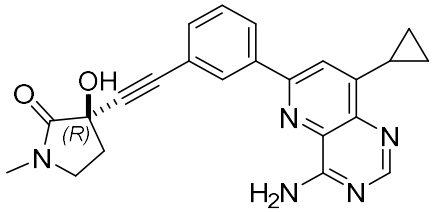


pyrrolidin-2-one having a formula of ; and

pharmaceutically acceptable salts thereof.

30. A compound as claimed in claim 12, wherein said compound is selected from

(*R*)-3-((3-(4-Amino-8-cyclopropylpyrido[3,2-*d*]pyrimidin-6-yl)phenyl)ethynyl)-3-



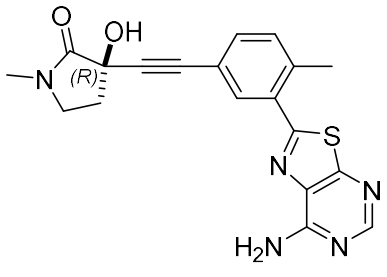
hydroxy-1-methylpyrrolidin-2-one having a formula of ;

and

pharmaceutically acceptable salts thereof.

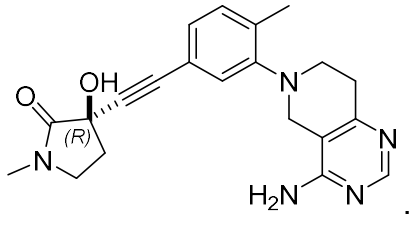
31. A compound as claimed in claim 12, wherein said compound is selected from

(*R*)-3-((3-(7-Aminothiazolo[5,4-*d*]pyrimidin-2-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-



methylpyrrolidin-2-one having a formula of .

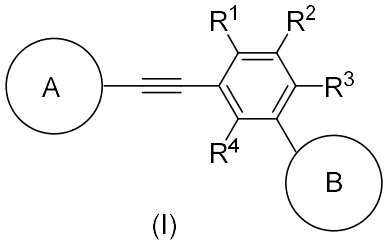
32. A compound as claimed in claim 12, wherein said compound is selected from

(*R*)-3-((3-(4-Amino-7,8-dihydropyrido[4,3-*d*]pyrimidin-6(5*H*)-yl)-4-methylphenyl)ethynyl)-3-hydroxy-1-methylpyrrolidin-2-one having a formula of 

.

33. A pharmaceutical composition comprising a therapeutically effective amount of at least one compound or pharmaceutically acceptable salt thereof as claimed in claims 1-32.

34. Use of an effective amount of at least one compound of Formula (I), or a pharmaceutically acceptable salt thereof



(I) ,

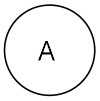
wherein

R^1 is H or -CH_3;

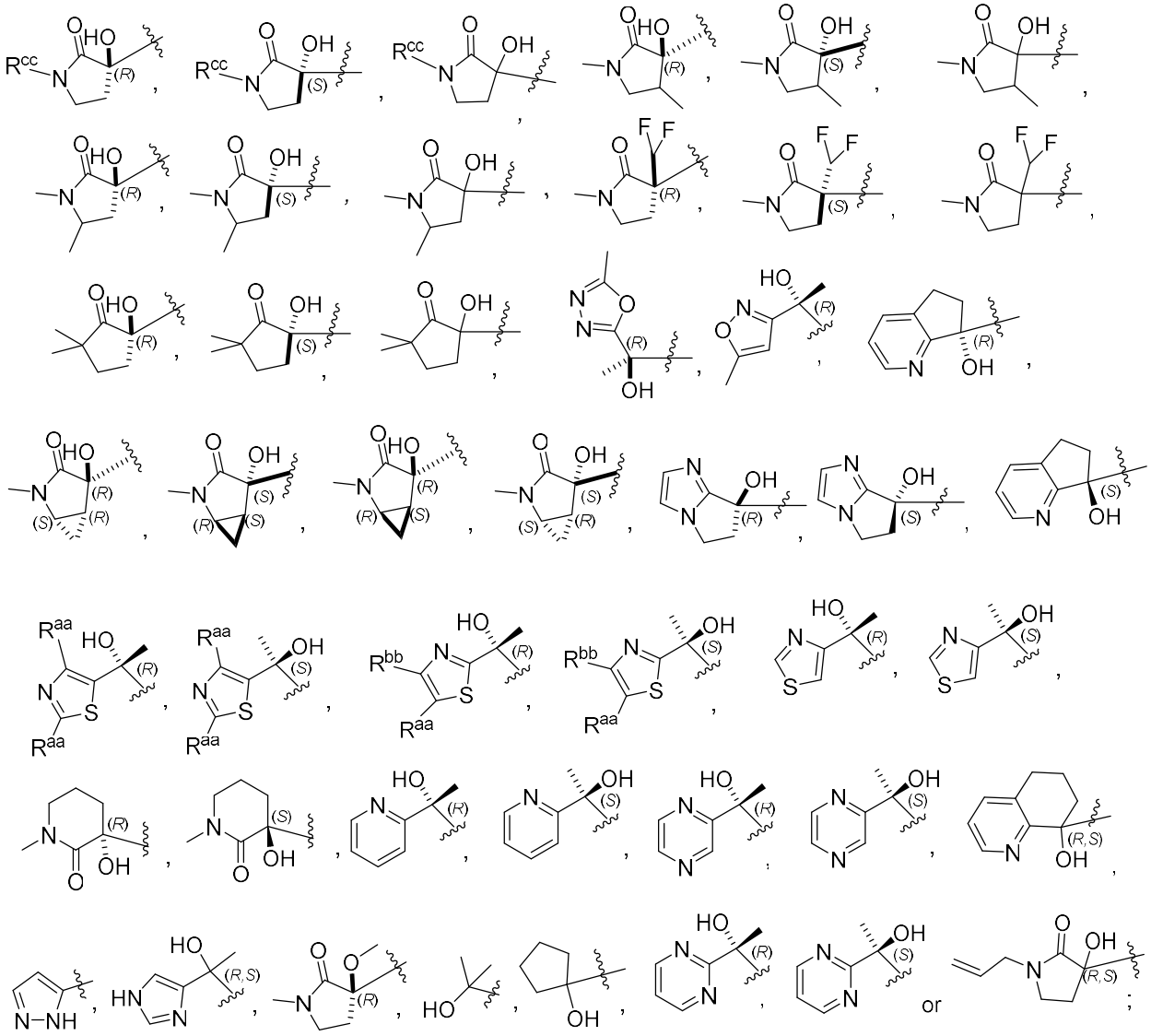
R^2 is H or -CH_3;

R^3 is H, -C_1-C_5alkyl, -OCH_3, or -O-C_1-C_3haloalkyl;

R^4 is H or -CH_3;

moiety 

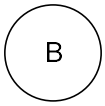
is

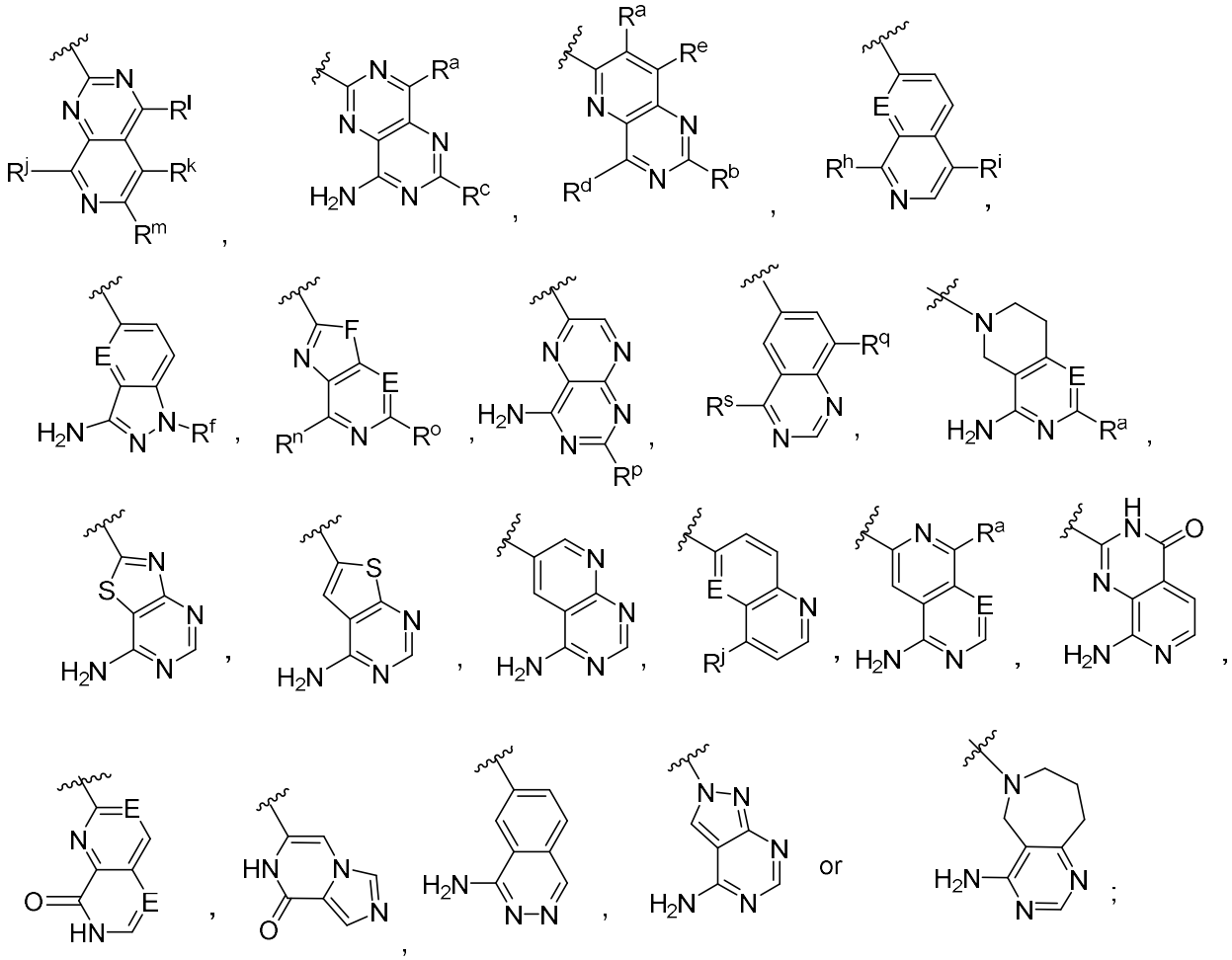


R^{aa} is H or -CH_3;

R^{bb} is H, -CH_3 or -CF_3;

R^{cc} is -CH_3, -CD_3 or -CH_2CF_3;

moiety  is



E is N or CH;

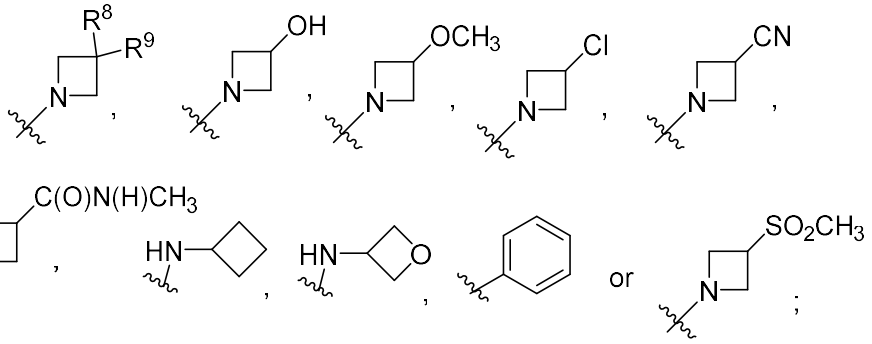
F is O, S, NH or NCH_3;

R^a is H or $-CH_3$;

R^b is H, D, -OH, F, $-C_1$-C_5alkyl, $-CH_2OCH_3$, $-C_1$-C_5haloalkyl, $-NH_2$, cyclopropyl, or $-CH_2OH$;

R^c is H, D or $-CH_3$;

R^d is H, -CN, -CF_3, -C_1-C_5alkyl, -C_3-C_6cycloalkyl, -O-C_1-C_3alkyl, -N(R^6)R^7,

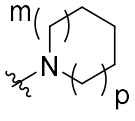


wherein

R^6 is H or -C_1-C_3alkyl;

R^7 is H, -C_1-C_3alkyl, -SO_2CH_3, -$COCH_3$, -C_1-C_4haloalkyl or -CH_2CN,

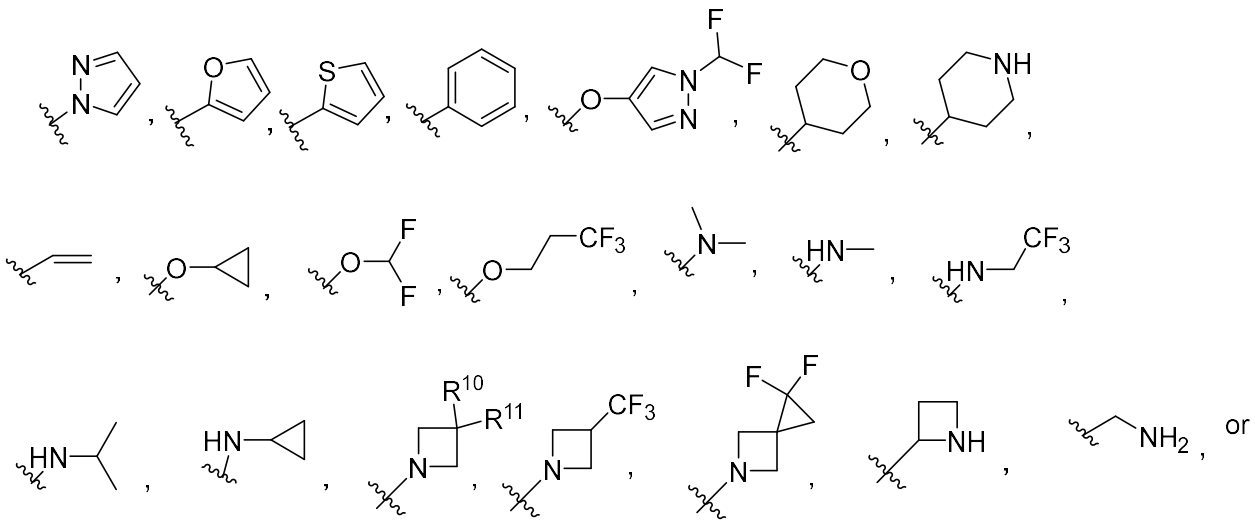
or R^6 and R^7 are taken together with the nitrogen to which they are attached to form

the moiety , wherein m is 0 or 1, and p is 0 or 1;

R^8 is H, F or -C_1-C_3alkyl;

R^9 is H, F or -C_1-C_3alkyl;

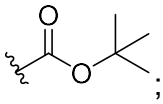
R^e is H, -CD_3, Br, -C_1-C_5alkyl, -C_3-C_6cycloalkyl,

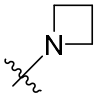


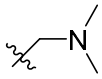
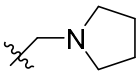
-C_1-C_5alkyl substituted with 1 to 3 R^g groups, wherein R^g is -NH_2, or F;

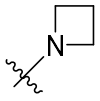
R^{10} is H or F;

R^{11} is H or F;

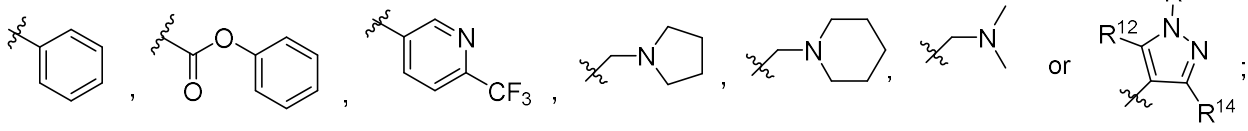
R^f is H, $-CH_3$ or ;

R^h is $-CH_3$, $-NH_2$ or ;

R^i is H, $-CH_3$, -CN, Br,  or ;

R^j is $-NH_2$ or ;

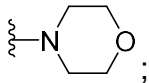
R^k is H, $-CF_3$, I, Cl, Br, -CN, $-C_1$-C_6alkyl,



R^{12} is H or $-CH_3$;

R^{13} is H, $-CH_3$, $-CH_2(C)(CH_3)_2OH$, $-(CH_2)_3CN$, or $-(CH_2)_2NH_2$;

R^{14} is H or $-CH_3$;

R^l is H, $-C_1$-C_4alkyl, $-CF_3$, , , or ;

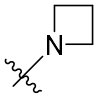
R^m is H or $-CH_3$;

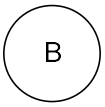
R^n is $-NH_2$;

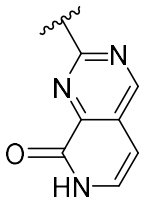
R^o is H or $-CH_3$;

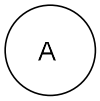
R^p is H or $-CH_3$;

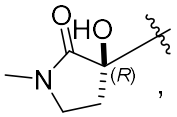
R^q is H, -CN, F, Cl, $-OCH_3$, $-CF_3$, or $-CH_3$; and

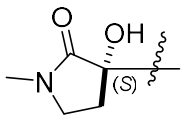
R^s is $-NH_2$ or ;

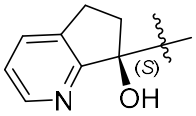
provided that when moiety 

is 

and each R^1, R^2, R^3 and R^4 is H, then moiety 

is 

, 

, or 

in the manufacture of a medicament for the treatment of a subject suffering from or diagnosed with a disease, disorder, or medical condition mediated by NIK activity,

wherein the disease, disorder or medical condition is selected from cancer, inflammatory disorders, autoimmune disorders, immunodermatologic disorders and metabolic disorders.

35. The use as claimed in claim 34 wherein the disease, disorder or medical condition is selected from SLE, RA, GvHD, transplant rejection, Sjogren's Syndrome, pemphigus vulgaris, palmoplantar pustulosis, hidradenitis suppurativa, obesity and diabetes.