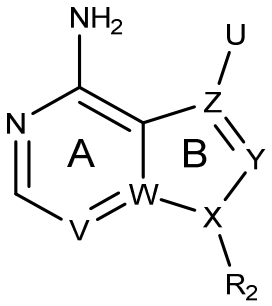
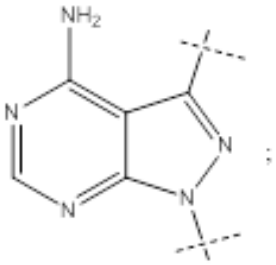
1. Compound having the structure of general formula (**I**)



**(I)**

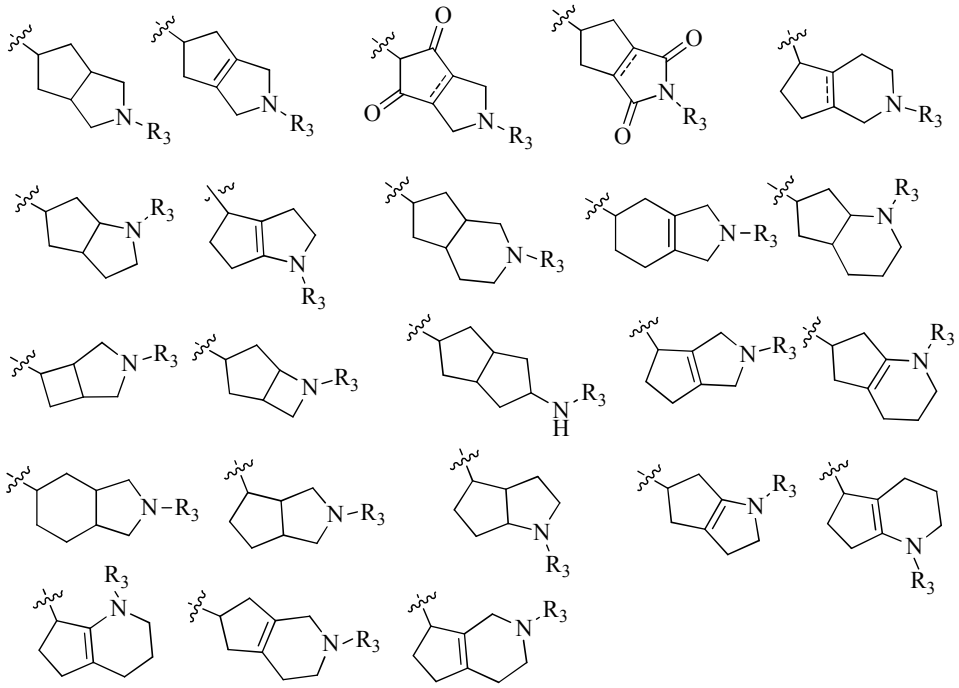
and their pharmaceutically acceptable salts, enantiomers and their diastereomers,

Bicyclic ring A-B is selected from the group consisting of:



Wherein

$R_2$ is selected from the following ring system:



$R_3$ at each occurrence is independently selected from, C(O)NH($C_{1-7}$)alkyl, C(O)-CH=$CH_2$, C(O)-CH≡C-$R_{11}$, C(O)-CH=CH-$R_4$, C(O)-C(CN)=$CH_2$, C(O)-C(CN)=CH-$R_4$, $SO_2$-NH($C_{1-7}$)alkyl, $SO_2$-CH=$CH_2$, $SO_2$-CH=CH-$R_4$ groups; wherein, $R_{11}$ is independently selected from hydrogen and alkyl group;

$R_4$ at each occurrence is selected from –($CH_2$)n-$NR_5R_6$; wherein, n=0-7 and each of $R_5$ and $R_6$ are independently selected from hydrogen, haloalkyl, $C_{1-7}$ alkyl, $C_{2-7}$ alkenyl, $C_{2-7}$ alkynyl, aryl, cycloalkyl, carbocycle, heterocycloalkyl, cycloalkyl($C_{1-7}$)alkyl, heterocycloalkyl($C_{1-7}$)alkyl;

'U' is selected from unsubstituted or substituted groups selected from heteroaryl, heterocycle, heterocycloalkyl, aryloxyaryl, aryloxyalkyl, aryloxyheteroaryl, heteroaryloxyaryl, heteroaryloxyalkyl, heteroaryloxyheteroaryl, Ph-CO-N($R_7R_8$), Ph-N($R_9$)-CO-$R_{10}$, wherein, $R_7$, $R_8$ and $R_{10}$ are independently selected from hydrogen, halogen, alkyl, haloalkyl, alkoxy, aryl, cycloalkyl, heteroaryl, heterocycloalkyl and wherein each of the alkyl, haloalkyl, alkoxy, aryl, cycloalkyl, heteroaryl, heterocycloalkyl groups are when substituted are further substituted with halogen, alkyl, alkoxy, haloalkoxy groups; $R_9$ are independently selected from hydrogen, $C_{1-7}$ alkyl, $C_{2-7}$ alkenyl, $C_{2-7}$ alkynyl.

2. A compound as claimed in claim 1 selected from the group comprising of:

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(2-methylbenzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(2,3-dihydrobenzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(dibenzo[b,d]furan-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

N-(6-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)benzo[d]thiazol-2-yl)acetamide;

1-(5-(4-amino-3-(2-methoxybenzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-yn-1-one;

1-(5-(4-amino-3-(3-methoxy-4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(pyridin-2-yl)benzamide;

1-(5-(4-amino-3-(2-phenylbenzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[d][1,3]dioxol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-(5-methyl-1,3,4-oxadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[d]oxazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

3-(4-phenoxyphenyl)-1-(2-(vinylsulfonyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine;

1-(5-(4-amino-3-(2-phenylbenzo[d]oxazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(2-phenoxybenzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-(1-methyl-1H-pyrazol-4-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[d]oxazol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(2-phenylbenzo[d]oxazol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

1-(5-(4-amino-3-(4-(5-(pyridin-2-yl)-1,3,4-oxadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

(E)-2-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)octahydrocyclopenta[c]pyrrole-2-carbonyl)-3-cyclopropylacrylonitrile;
4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-2-methoxy-N-(4-methylpyridin-2-yl)benzamide;
4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-methylpyridin-2-yl)benzamide;
N-(4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phenyl)picolinamide;
4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(benzo[d]thiazol-2-yl)benzamide;
N-(4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phenyl)pyrazine-2-carboxamide;
1-(5-(4-amino-3-(2,2-difluorobenzo[d][1,3]dioxol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;
4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(pyrazin-2-yl)benzamide;
N-(4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phenyl)benzamide;
1-(5-(4-amino-3-(4-(5-(pyridin-2-yl)-1,3,4-thiadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;
4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;
Z)-methyl 4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-methylpyridin-2-yl)benzimidate;
6-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-methylpyridin-2-yl)nicotinamide;
1-(5-(4-amino-3-(4-(pyridin-2-yloxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;
(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(pyridin-2-yl)benzamide;

(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-methylpyridin-2-yl)benzamide;

1-(5-(4-amino-3-(4-(5-(pyrazin-2-yl)-1,3,4-thiadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-(pyridin-2-yloxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(pyrazin-2-yl)benzamide;

(Z)-methyl 4-(4-amino-1-(2-((E)-4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-methylpyridin-2-yl)benzimidate;

(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

1-(5-(4-amino-3-(4-(pyridin-3-yloxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-(pyridin-3-yloxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-methyl-N-(4-methylpyridin-2-yl)benzamide;

(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-methyl-N-(4-methylpyridin-2-yl)benzamide;

(E)-1-(5-(4-amino-3-(4-(5-(pyrazin-2-yl)-1,3,4-thiadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-(5-(pyridin-2-yl)-1,3,4-oxadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one.

3. A compound as claimed in claim 1 selected from the group comprising of:

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(5-((4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)methyl)pyridin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(2-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)ethyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(2-methylbenzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(2,3-dihydrobenzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(dibenzo[b,d]furan-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

N-(6-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)benzo[d]thiazol-2-yl)acetamide;

1-(5-(4-amino-3-(2-methoxybenzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-yn-1-one;

1-(5-(4-amino-3-(3-methoxy-4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(pyridin-2-yl)benzamide;

1-(5-(4-amino-3-(2-phenylbenzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[d][1,3]dioxol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-(5-methyl-1,3,4-oxadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[d]oxazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

3-(4-phenoxyphenyl)-1-(2-(vinylsulfonyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine;

1-(5-(4-amino-3-(2-phenylbenzo[d]oxazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(2-phenoxybenzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-(1-methyl-1H-pyrazol-4-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[d]oxazol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(2-phenylbenzo[d]oxazol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

1-(5-(4-amino-3-(4-(5-(pyridin-2-yl)-1,3,4-oxadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

(E)-2-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)octahydrocyclopenta[c]pyrrole-2-carbonyl)-3-cyclopropylacrylonitrile;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-2-methoxy-N-(4-methylpyridin-2-yl)benzamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-methylpyridin-2-yl)benzamide;

N-(4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phenyl)picolinamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(benzo[d]thiazol-2-yl)benzamide;

N-(4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phenyl)pyrazine-2-carboxamide;

1-(5-(4-amino-3-(2,2-difluorobenzo[d][1,3]dioxol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(pyrazin-2-yl)benzamide;

N-(4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phenyl)benzamide;

1-(5-(4-amino-3-(4-(5-(pyridin-2-yl)-1,3,4-thiadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

Z)-methyl 4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-methylpyridin-2-yl)benzimidate;

6-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-methylpyridin-2-yl)nicotinamide;

1-(5-(4-amino-3-(4-(pyridin-2-yloxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(pyridin-2-yl)benzamide;

(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-methylpyridin-2-yl)benzamide;

1-(5-(4-amino-3-(4-(5-(pyrazin-2-yl)-1,3,4-thiadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-(pyridin-2-yloxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(pyrazin-2-yl)benzamide;

(Z)-methyl 4-(4-amino-1-(2-((E)-4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-methylpyridin-2-yl)benzimidate;

(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

1-(5-(4-amino-3-(4-(pyridin-3-yloxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-(pyridin-3-yloxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-methyl-N-(4-methylpyridin-2-yl)benzamide;

(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-methyl-N-(4-methylpyridin-2-yl)benzamide;

(E)-1-(5-(4-amino-3-(4-(5-(pyrazin-2-yl)-1,3,4-thiadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-(5-(pyridin-2-yl)-1,3,4-oxadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5,6-dihydrocyclopenta[c]pyrrol-2(1H,3H,4H)-yl)prop-2-en-1-one;

2-acryloyl-5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3-dihydrocyclopenta[c]pyrrole-4,6(1H,5H)-dione;

2-acryloyl-5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5,6-dihydrocyclopenta[c]pyrrole-1,3(2H,4H)-dione;

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[b]pyrrol-1(2H)-yl)prop-2-en-1-one;

1-(4-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3,5,6-tetrahydrocyclopenta[b]pyrrol-1(4H)-yl)prop-2-en-1-one;

1-(6-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydro-1H-cyclopenta[c]pyridin-2(3H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-4,5,6,7-tetrahydro-1H-isoindol-2(3H)-yl)prop-2-en-1-one;

1-(6-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3-azabicyclo[3.2.0]heptan-3-yl)prop-2-en-1-one;

1-(3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-6-azabicyclo[3.2.0]heptan-6-yl)prop-2-en-1-one;

N-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)octahydropentalen-2-yl)acrylamide;

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3,4,6,7-tetrahydro-1H-cyclopenta[c]pyridin-2(5H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydro-1H-isoindol-2(3H)-yl)prop-2-en-1-one;

1-(4-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(4-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[b]pyrrol-1(2H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3,5,6-tetrahydrocyclopenta[b]pyrrol-1(4H)-yl)prop-2-en-1-one;

1-(4-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5,6-dihydrocyclopenta[c]pyrrol-2(1H,3H,4H)-yl)prop-2-en-1-one;

1-(6-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)octahydro-1H-cyclopenta[b]pyridin-1-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3,4,5,6,7-hexahydro-1H-cyclopenta[b]pyridin-1-yl)prop-2-en-1-one;

1-(7-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3,4,5,6,7-hexahydro-1H-cyclopenta[b]pyridin-1-yl)prop-2-en-1-one;

1-(6-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3,4,6,7-tetrahydro-1H-cyclopenta[c]pyridin-2(5H)-yl)prop-2-en-1-one;

1-(7-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3,4,6,7-tetrahydro-1H-cyclopenta[c]pyridin-2(5H)-yl)prop-2-en-1-one;

1-(7-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3,4,5,6,7-hexahydro-1H-cyclopenta[b]pyridin-1-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5,6-dihydrocyclopenta[c]pyrrol-2(1H,3H,4H)-yl)prop-2-en-1-one;

2-acryloyl-5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3-dihydrocyclopenta[c]pyrrole-4,6(1H,5H)-dione;
2-acryloyl-5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5,6-dihydrocyclopenta[c]pyrrole-1,3(2H,4H)-dione;
1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[b]pyrrol-1(2H)-yl)prop-2-en-1-one;
1-(4-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3,5,6-tetrahydrocyclopenta[b]pyrrol-1(4H)-yl)prop-2-en-1-one;
1-(6-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydro-1H-cyclopenta[c]pyridin-2(3H)-yl)prop-2-en-1-one;
1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-4,5,6,7-tetrahydro-1H-isoindol-2(3H)-yl)prop-2-en-1-one;
1-(6-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3-azabicyclo[3.2.0]heptan-3-yl)prop-2-en-1-one;
1-(3-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-6-azabicyclo[3.2.0]heptan-6-yl)prop-2-en-1-one;
N-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)octahydropentalen-2-yl)acrylamide;
1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3,4,6,7-tetrahydro-1H-cyclopenta[c]pyridin-2(5H)-yl)prop-2-en-1-one;
1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydro-1H-isoindol-2(3H)-yl)prop-2-en-1-one;
1-(4-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;
1-(4-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[b]pyrrol-1(2H)-yl)prop-2-en-1-one;
1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3,5,6-tetrahydrocyclopenta[b]pyrrol-1(4H)-yl)prop-2-en-1-one;
1-(4-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5,6-dihydrocyclopenta[c]pyrrol-2(1H,3H,4H)-yl)prop-2-en-1-one;
1-(6-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)octahydro-1H-cyclopenta[b]pyridin-1-yl)prop-2-en-1-one;
1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3,4,5,6,7-hexahydro-1H-cyclopenta[b]pyridin-1-yl)prop-2-en-1-one;

1-(7-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3,4,5,6,7-hexahydro-1H-cyclopenta[b]pyridin-1-yl)prop-2-en-1-one;
1-(6-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3,4,6,7-tetrahydro-1H-cyclopenta[c]pyridin-2(5H)-yl)prop-2-en-1-one;
1-(7-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3,4,6,7-tetrahydro-1H-cyclopenta[c]pyridin-2(5H)-yl)prop-2-en-1-one;
1-(7-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-2,3,4,5,6,7-hexahydro-1H-cyclopenta[b]pyridin-1-yl)prop-2-en-1-one;
1-(5-(4-amino-3-(benzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5,6-dihydrocyclopenta[c]pyrrol-2(1H,3H,4H)-yl)prop-2-en-1-one;
1-(6-(4-amino-3-(benzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydro-1H-cyclopenta[c]pyridin-2(3H)-yl)prop-2-en-1-one;
1-(6-(4-amino-3-(benzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3-azabicyclo[3.2.0]heptan-3-yl)prop-2-en-1-one;
N-(5-(4-amino-3-(benzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)octahydropentalen-2-yl)acrylamide;
1-(5-(4-amino-3-(benzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3,4,6,7-tetrahydro-1H-cyclopenta[c]pyridin-2(5H)-yl)prop-2-en-1-one;
1-(5-(4-amino-3-(2,3-dihydrobenzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5,6-dihydrocyclopenta[c]pyrrol-2(1H,3H,4H)-yl)prop-2-en-1-one;
1-(6-(4-amino-3-(2,3-dihydrobenzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydro-1H-cyclopenta[c]pyridin-2(3H)-yl)prop-2-en-1-one
1-(6-(4-amino-3-(2,3-dihydrobenzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3-azabicyclo[3.2.0]heptan-3-yl)prop-2-en-1-one;
N-(5-(4-amino-3-(2,3-dihydrobenzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)octahydropentalen-2-yl)acrylamide;
1-(5-(4-amino-3-(2,3-dihydrobenzo[b]thiophen-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3,4,6,7-tetrahydro-1H-cyclopenta[c]pyridin-2(5H)-yl)prop-2-en-1-one;
N-(6-(1-(2-acryloyl-1,2,3,4,5,6-hexahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)benzo[d]thiazol-2-yl)acetamide;
N-(6-(1-(2-acryloyloctahydro-1H-cyclopenta[c]pyridin-6-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)benzo[d]thiazol-2-yl)acetamide;

N-(5-(3-(2-acetamidobenzo[d]thiazol-6-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-1-yl)octahydropentalen-2-yl)acrylamide;

(E)-1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5,6-dihydrocyclopenta[c]pyrrol-2(1H,3H,4H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(6-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydro-1H-cyclopenta[c]pyridin-2(3H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(6-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3-azabicyclo[3.2.0]heptan-3-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(5-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3,4,6,7-tetrahydro-1H-cyclopenta[c]pyridin-2(5H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5,6-dihydrocyclopenta[c]pyrrol-2(1H,3H,4H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(6-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydro-1H-cyclopenta[c]pyridin-2(3H)-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(6-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3-azabicyclo[3.2.0]heptan-3-yl)-4-(dimethylamino)but-2-en-1-one;

(E)-1-(5-(4-amino-3-(benzo[d]thiazol-6-yl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-3,4,6,7-tetrahydro-1H-cyclopenta[c]pyridin-2(5H)-yl)-4-(dimethylamino)but-2-en-1-one;

1-(5-(4-amino-3-(4-benzoylphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-phenylbenzamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-methyl-N-phenylbenzamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-2-methyl-N-phenylbenzamide

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-2-methoxy-N-phenylbenzamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N,2-dimethyl-N-phenylbenzamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-2-methoxy-N-methyl-N-phenylbenzamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-2-methyl-N-(pyridin-2-yl)benzamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-2-methoxy-N-(pyridin-2-yl)benzamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-2-methyl-N-(4-methylpyridin-2-yl)benzamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-2-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-2-methoxy-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-(1-(2-acryloyl-1,2,3,4,5,6-hexahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-phenylbenzamide;

4-(1-(1-acryloyloctahydrocyclopenta[b]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-phenylbenzamide;

4-(4-amino-1-(2-(vinylsulfonyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-phenylbenzamide;

(E)-4-(4-amino-1-(2-(4-(dimethylamino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-phenylbenzamide;

(E)-4-(4-amino-1-(2-(4-(cyclopropyl(methyl)amino)but-2-enoyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-phenylbenzamide;

(Z)-4-(4-amino-1-(2-(2-cyano-3-cyclopropylacryloyl)octahydrocyclopenta[c]pyrrol-5-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-phenylbenzamide;

1-(5-(4-amino-3-(4-(5-phenyl-1,3,4-oxadiazol-2-yl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)-N-(5-chloropyridin-2-yl)benzamide;

1-(5-(4-amino-3-(4-(morpholinomethyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-(piperidin-1-ylmethyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-((3,4-dihydroisoquinolin-2(1H)-yl)methyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-((tetrahydrofuran-2-yl)oxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-(1-morpholinoethyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-(pyrrolidin-1-ylmethyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-((dimethylamino)methyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

N-(4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)benzyl)acetamide;

1-(5-(4-amino-3-(4-(2-morpholinoethoxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

2-(4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)benzyl)isoindoline-1,3-dione;

1-(5-(4-amino-3-(4-((3,4-dihydroisoquinolin-2(1H)-yl)methyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-(azepan-1-ylmethyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-((hexahydro-1H-isoindol-2(3H)-yl)methyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-(thiomorpholinomethyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

1-(5-(4-amino-3-(4-((1,1-dioxidobenzo[d]isothiazol-2(3H)-yl)methyl)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)hexahydrocyclopenta[c]pyrrol-2(1H)-yl)prop-2-en-1-one;

2-(4-(1-(2-acryloyloctahydrocyclopenta[c]pyrrol-5-yl)-4-amino-1H-pyrazolo[3,4-d]pyrimidin-3-yl)benzyl)isoindolin-1-one.

4. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Formula (**I**) as claimed in claim 1 and optionally one or more pharmaceutically acceptable carriers, diluents or excipients.

5. The pharmaceutical composition of a compound of Formula (**I**) as claimed in claim 1 which is useful for treating a disease, disorder or condition, which would benefit from inhibition of tyrosine kinase (s), such as BTK activity to provide clinical benefit in diseases such as autoimmune disorders, an inflammatory disease, or an allergy disease selected from rheumatoid arthritis or lupus erythromatosis, asthma, allergic rhinitis, B-cell proliferative disorder such as B-cell lymphoma, multiple sclerosis, mantle cell lymphoma, chronic lymphocytic lymphoma / leukemia, diffuse large B-cell lymphoma, Follicular lymphoma or chronic lymphocytic leukemia, B-cell prolymphocytic leukemia.