

Claims

1. A compound selected from the group consisting of: N-(2-cyclopropylpropan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N,N-diethyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-ethyl-N-(propan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(pyridin-4-yl)-N-(1,1,1-trifluoropropan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; N-methyl-N-(propan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(propan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methoxy-2-methylpropan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(4-methoxy-2-methylbutan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-butyl-N-methyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-ethyl-N-methyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propoxy)ethan-1-ol; 2-methyl-1-(2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propoxy)propan-2-ol; N-ethyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-propyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(2-cyclohexylpropan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(3-methyloxetan-3-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(2-methylcyclopentyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 3-methyl-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butan-2-ol; N-butyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(2-methyl-4-phenylbutan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-cyclopropyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(4-methanesulfonyl-2-methylbutan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propane-1,3-diol; 3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butan-2-ol; 2-(2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propoxy)acetic acid; (1R,2S)-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]cyclopentan-1-ol; 4,4,4-trifluoro-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butan-1-ol; N-(1-methanesulfonyl-2-methylpropan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; (2S)-3,3,3-trifluoro-2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propanoic acid; 2-[(2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propyl)amino]acetic acid; (2R)-3,3,3-trifluoro-2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propanoic acid; methyl 2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propanoate; (1S,2S)-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]cyclopentan-1-ol; 2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propanoic acid; 2-(2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]ethoxy)ethan-1-ol; 2-(hydroxymethyl)-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propane-1,3-diol; 3-methyl-3-(3-methyl-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butanamido)butanoic acid; 2-(pyridin-4-yl)-N-(1,1,1-trifluoro-3-phenylpropan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; N-[[4-(dimethylamino)oxan-

4-yl)methyl]-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 3-methyl-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butanoic acid; N-(2-methanesulfonyl-ethyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-[2-(adamantan-1-yl)propan-2-yl]-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-methyl-N-[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]propanamide; 4,4,4-trifluoro-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butanoic acid; N-[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]propane-2-sulfonamide; 2-(pyridin-4-yl)-N-[3-(1H-1,2,3,4-tetrazol-5-yl)propyl]pyrido[3,4-d]pyrimidin-4-amine; N-methyl-2-(pyridin-4-yl)-N-[1,1,1-trifluoropropan-2-yl]pyrido[3,4-d]pyrimidin-4-amine; N-methyl-2-(pyridin-4-yl)-N-[(2S)-1,1,1-trifluoropropan-2-yl]pyrido[3,4-d]pyrimidin-4-amine; N-methyl-2-(pyridin-4-yl)-N-[(2R)-1,1,1-trifluoropropan-2-yl]pyrido[3,4-d]pyrimidin-4-amine; 2,4-dimethyl-4-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]pentan-2-ol; 4,4,4-trifluoro-2,3-dimethyl-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butan-2-ol; (1-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]cyclopentyl)methanol; N-(3-methoxycyclobutyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; (1R,2R)-1-N,2-N-dimethyl-1-N-[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]cyclohexane-1,2-diamine; methyl (1s,3s)-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]cyclobutane-1-carboxylate; ethyl 1-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]cyclobutane-1-carboxylate; 1-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]cyclobutane-1-carboxylic acid; (1s,3s)-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]cyclobutane-1-carboxylic acid; 2-(pyridin-4-yl)-N-(1,1,1-trifluoro-2-methylpropan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; N-tert-butyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclobutyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 3-methyl-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butan-1-ol; 2-(pyridin-4-yl)-N-[1-(trifluoromethyl)cyclobutyl]pyrido[3,4-d]pyrimidin-4-amine; N-(2-methylbutan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(pyridin-4-yl)-N-[1-(trifluoromethyl)cyclopropyl]pyrido[3,4-d]pyrimidin-4-amine; N-cyclopentyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propan-1-ol; 3,3,3-trifluoro-2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propan-1-ol; N-(butan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(2-methylbut-3-yn-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; (1r,3s)-3-methyl-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]cyclobutan-1-ol; 2,3-dimethyl-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butan-2-ol; 2-(pyridin-4-yl)-N-(2,4,4-trimethylpentan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(pentan-3-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-[2-methyl-1-(morpholin-4-yl)propan-2-yl]-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-[1-(tert-butoxy)-2-methylpropan-2-yl]-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 4,4,4-trifluoro-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butan-1-ol; N-pentyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-[[2-(pyridin-4-yl)pyrido[3,4-

d]pyrimidin-4-yl]amino}butan-1-ol; N-[1-(1H-indol-3-yl)-2-methylpropan-2-yl]-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-[1-(4-fluorophenyl)-2-methylpropan-2-yl]-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(2-phenylpropan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(2-fluorophenyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-

5 [2-(4-fluorophenyl)propan-2-yl]-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 3,3,3-trifluoro-2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propanoic acid; 2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]ethan-1-ol; N-methyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 1-([2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino)methylcyclopentan-1-ol; N,N-dimethyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-

10 amine; N-(2-methylphenyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(4-methylphenyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(4-methoxyphenyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-phenyl-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(3-methylphenyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 6-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]hexanoic acid; N-(3-fluorophenyl)-2-

15 (pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(4-fluorophenyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 4-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butanoic acid; N-(1-phenylethyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; tert-butyl N-(2-methyl-2-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propyl)carbamate; (1-[[2-(pyridin-4-yl)pyrido[3,4-

20 d]pyrimidin-4-yl]amino)cyclobutyl)methanol; methyl 2-(1-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino)cyclopropyl)acetate; N-(2-methylpropyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 3-methyl-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butanenitrile; N-(6-aminohexyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(4-aminobutyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-methyl-2-[[2-(pyridin-4-

25 yl)pyrido[3,4-d]pyrimidin-4-yl]amino]propanenitrile; N-[2-methyl-1-(2-methylpiperidin-1-yl)propan-2-yl]-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; dimethyl(3-methyl-3-[[2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino]butyl)amine; N-(1-amino-2-methylpropan-2-yl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-cyclopentyl-2-[3-(trifluoromethyl)-1H-pyrazol-4-yl]pyrido[3,4-d]pyrimidin-4-amine; 4-[4-(tert-butylamino)pyrido[3,4-d]pyrimidin-2-

30 yl]pyridin-2-amine; 2-[1-(benzenesulfonyl)-2-methyl-1H-pyrrolo[2,3-b]pyridin-3-yl]-N-tert-butylpyrido[3,4-d]pyrimidin-4-amine; N-tert-butyl-2-{2-methyl-1H-pyrrolo[2,3-b]pyridin-3-yl}pyrido[3,4-d]pyrimidin-4-amine; N-tert-butyl-2-[3-(trifluoromethyl)-1H-pyrazol-4-yl]pyrido[3,4-d]pyrimidin-4-amine; N-tert-butyl-2-(3-chloropyridin-4-yl)pyrido[3,4-

35 d]pyrimidin-4-amine; N-tert-butyl-2-(3-methylpyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(3-chloropyridin-4-yl)-N-(2-methylbutan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; 2,4-dimethyl-4-([2-[3-(trifluoromethyl)-1H-pyrazol-4-yl]pyrido[3,4-d]pyrimidin-4-yl]amino)pentan-2-ol; N-ethyl-2-(3-fluoropyridin-4-yl)-N-(propan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-methyl-1-[2-

methyl-2-({2-[3-(trifluoromethyl)-1H-pyrazol-4-yl]pyrido[3,4-d]pyrimidin-4-yl}amino)propoxy]propan-2-ol; 2-(3-fluoropyridin-4-yl)-N-methyl-N-(propan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; N-ethyl-2-(3-methylpyridin-4-yl)-N-(propan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(3-chloropyridin-4-yl)-N-(1-methoxy-2-methylpropan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; 4-{[2-(3-chloropyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino}-2,4-dimethylpentan-2-ol; 2-(3-chloropyridin-4-yl)-N-cyclopentylpyrido[3,4-d]pyrimidin-4-amine; 1-(2-{[2-(3-chloropyridin-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino}-2-methylpropoxy)-2-methylpropan-2-ol; N-methyl-2-(3-methylpyridin-4-yl)-N-(propan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(3-chloropyridin-4-yl)-N-(4-methanesulfonyl-2-methylbutan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; N-tert-butyl-2-[3-(trifluoromethyl)pyridin-4-yl]pyrido[3,4-d]pyrimidin-4-amine; N-tert-butyl-2-[2-chloro-5-(trifluoromethyl)pyridin-4-yl]pyrido[3,4-d]pyrimidin-4-amine; 2-(3-chloropyridin-4-yl)-N-[3-(1H-1,2,3,4-tetrazol-5-yl)propyl]pyrido[3,4-d]pyrimidin-4-amine; 2-(3-methyl-1H-pyrazol-4-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; 2-(3-fluoropyridin-4-yl)-N-(1,1,1-trifluoro-2-methylpropan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(3-methyl-1H-pyrazol-4-yl)-N-(1,1,1-trifluoro-2-methylpropan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(3-fluoropyridin-4-yl)-N-methyl-N-[(2S)-1,1,1-trifluoropropan-2-yl]pyrido[3,4-d]pyrimidin-4-amine; 2-(3-fluoropyridin-4-yl)-N-methyl-N-[(2R)-1,1,1-trifluoropropan-2-yl]pyrido[3,4-d]pyrimidin-4-amine; 4-{4-[(1-methylcyclopropyl)amino]pyrido[3,4-d]pyrimidin-2-yl}pyridin-2-amine; 2-(3-chloropyridin-4-yl)-N-(1,1,1-trifluoro-2-methylpropan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; 2,4-dimethyl-4-{[2-(3-methyl-1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino}pentan-2-ol; 4-{4-[(1-methylcyclopropyl)amino]pyrido[3,4-d]pyrimidin-2-yl}pyridine-3-carbonitrile; 2-{2-methyl-1H-pyrrolo[2,3-b]pyridin-3-yl}-N-propylpyrido[3,4-d]pyrimidin-4-amine; 2-(1H-indazol-5-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; 2-(3,5-dimethyl-1H-pyrazol-4-yl)-N-(1,1,1-trifluoro-2-methylpropan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(1,1,1-trifluoro-2-methylpropan-2-yl)-2-[3-(trifluoromethyl)-1H-pyrazol-4-yl]pyrido[3,4-d]pyrimidin-4-amine; 4-{4-[(4-hydroxy-2,4-dimethylpentan-2-yl)amino]pyrido[3,4-d]pyrimidin-2-yl}pyridine-3-carbonitrile; 2-(3,5-difluoropyridin-4-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; 2-(2,3-difluoropyridin-4-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-(1,3-thiazol-5-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-[2-(trifluoromethyl)pyridin-4-yl]pyrido[3,4-d]pyrimidin-4-amine; 4-{4-[(1-methylcyclopropyl)amino]pyrido[3,4-d]pyrimidin-2-yl}pyridine-2-carbonitrile; N-(1-methylcyclopropyl)-2-(1,2-oxazol-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(dimethyl-1,2-oxazol-4-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-{1H-pyrrolo[2,3-b]pyridin-4-yl}pyrido[3,4-d]pyrimidin-4-amine; N-propyl-2-{1H-pyrrolo[2,3-b]pyridin-3-yl}pyrido[3,4-d]pyrimidin-4-amine; N-propyl-2-{1H-pyrrolo[3,2-b]pyridin-1-

yl}pyrido[3,4-d]pyrimidin-4-amine; 2-(3-methylpyridin-4-yl)-N-(1,1,1-trifluoro-2-methylpropan-2-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclobutyl)-2-(1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-(pyrimidin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 4-[[2-(3,5-dimethyl-1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino}-2,4-dimethylpentan-2-ol; N-propyl-2-{7H-pyrrolo[2,3-d]pyrimidin-5-yl}pyrido[3,4-d]pyrimidin-4-amine; 2-(3-chloropyridin-4-yl)-N-propylpyrido[3,4-d]pyrimidin-4-amine; 2-(3-cyclopropyl-1H-pyrazol-4-yl)-N-propylpyrido[3,4-d]pyrimidin-4-amine; 2-(3-methylpyridin-4-yl)-N-propylpyrido[3,4-d]pyrimidin-4-amine; 2-{1-methyl-1H-pyrrolo[2,3-b]pyridin-3-yl}-N-propylpyrido[3,4-d]pyrimidin-4-amine; 2,4-dimethyl-4-[[2-(1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino}pentan-2-ol; N-[(1R)-1-phenylethyl]-2-(1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(5-methyl-1H-pyrazol-4-yl)-N-[(1R)-1-phenylethyl]pyrido[3,4-d]pyrimidin-4-amine; N-methyl-2-(1-methyl-1H-pyrazol-5-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; 2-(1-methyl-1H-pyrazol-5-yl)-N-[(1R)-1-phenylethyl]pyrido[3,4-d]pyrimidin-4-amine; N-methyl-N-(1-methylcyclopropyl)-2-(1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(1-methyl-1H-pyrazol-5-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; 2-(1-ethyl-1H-pyrazol-5-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-(pyridazin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-(1,3-oxazol-5-yl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-(1H-pyrazol-5-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(1H-imidazol-5-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; 2-(1-methyl-1H-imidazol-5-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-{1H-pyrrolo[3,2-b]pyridin-1-yl}pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-(1H-1,2,3-triazol-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(3-methyl-1,2-oxazol-5-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-(2H-1,2,3,4-tetrazol-5-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(1H-pyrazol-4-yl)-N-[1-(pyridin-4-yl)ethyl]pyrido[3,4-d]pyrimidin-4-amine; N-tert-butyl-2-(1-methyl-1H-pyrazol-5-yl)pyrido[3,4-d]pyrimidin-4-amine; (1-{[2-(3-methyl-1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino}cyclobutyl)methanol; 2-(1-methyl-1H-pyrazol-5-yl)-N-(1-methylcyclobutyl)pyrido[3,4-d]pyrimidin-4-amine; (1-{[2-(1-methyl-1H-pyrazol-5-yl)pyrido[3,4-d]pyrimidin-4-yl]amino}cyclobutyl)methanol; 2-(1H-pyrazol-4-yl)-N-[1-(trifluoromethyl)cyclopropyl]pyrido[3,4-d]pyrimidin-4-amine; 2-(1-methyl-1H-pyrazol-5-yl)-N-[1-(trifluoromethyl)cyclopropyl]pyrido[3,4-d]pyrimidin-4-amine; 2-(3-methyl-1H-pyrazol-4-yl)-N-[1-(pyridin-4-yl)ethyl]pyrido[3,4-d]pyrimidin-4-amine; (1-{[2-(1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino}cyclobutyl)methanol; (1-{[2-(1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-yl]amino}cyclopropyl)methanol; 2-(1-methyl-1H-pyrazol-5-yl)-N-[1-(pyridin-4-yl)ethyl]pyrido[3,4-d]pyrimidin-4-amine; N-(1-methylcyclopropyl)-2-(1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(1-ethyl-1H-pyrazol-4-yl)-N-(2-

methylpropyl)pyrido[3,4-d]pyrimidin-4-amine; 2-(1-methyl-1H-pyrazol-4-yl)-N-(1-methylcyclopropyl)pyrido[3,4-d]pyrimidin-4-amine; N-(1-amino-2-methylpropan-2-yl)-2-(1H-pyrazol-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 8-chloro-N-(1-methylcyclopropyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 8-methyl-N-(1-methylcyclopropyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-tert-butyl-5-chloro-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 5-chloro-N-(1-methylcyclopropyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; 2-(2-([4-(tert-butylamino)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-5-yl]amino)ethoxy)ethan-1-ol; N-(4-methoxy-2-methylbutan-2-yl)-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; N-[2-methyl-1-(propan-2-yloxy)propan-2-yl]-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; N-[(2S)-butan-2-yl]-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; N-[(2R)-butan-2-yl]-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; N-(1-methoxy-2-methylpropan-2-yl)-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; N-methyl-N-(propan-2-yl)-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; 3-methyl-3-[[2-(pyridin-4-yl)-1,7-naphthyridin-4-yl]amino]butan-1-ol; N-tert-butyl-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; 2,2-dimethyl-1-[2-(pyridin-4-yl)-1,7-naphthyridin-4-yl]piperidin-4-ol; 2,4-dimethyl-4-[[2-(pyridin-4-yl)-1,7-naphthyridin-4-yl]amino]pentan-2-ol; N-cyclopentyl-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; dimethyl(3-methyl-3-[[2-(pyridin-4-yl)-1,7-naphthyridin-4-yl]amino]butyl)amine; N,N-diethyl-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; 2-methyl-1-(2-methyl-2-[[2-(pyridin-4-yl)-1,7-naphthyridin-4-yl]amino]propoxy)propan-2-ol; N-propyl-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; N-tert-butyl-2-(3-methyl-1H-pyrazol-4-yl)-1,7-naphthyridin-4-amine; N-tert-butyl-2-(pyrimidin-4-yl)-1,7-naphthyridin-4-amine; 2-(2-aminopyrimidin-4-yl)-N-tert-butyl-1,7-naphthyridin-4-amine; N-tert-butyl-2-[1H-pyrrolo[2,3-b]pyridin-4-yl]-1,7-naphthyridin-4-amine; N-tert-butyl-2-(pyridazin-4-yl)-1,7-naphthyridin-4-amine; 2-(2-aminopyridin-4-yl)-N-tert-butyl-1,7-naphthyridin-4-amine; N,N-diethyl-2-(3-fluoropyridin-4-yl)-1,7-naphthyridin-4-amine; (3-[[2-(3-fluoropyridin-4-yl)-1,7-naphthyridin-4-yl]amino]-3-methylbutyl)dimethylamine; 2-(3-fluoropyridin-4-yl)-N-methyl-N-(propan-2-yl)-1,7-naphthyridin-4-amine; 2-(3-fluoropyridin-4-yl)-4-(piperidin-1-yl)-1,7-naphthyridine; 2-(3-fluoropyridin-4-yl)-4-(morpholin-4-yl)-1,7-naphthyridine; N-tert-butyl-2-(3-fluoropyridin-4-yl)-1,7-naphthyridin-4-amine; 2-(3-fluoropyridin-4-yl)-N-(2-methylbutan-2-yl)-1,7-naphthyridin-4-amine; 2-[[2-(3-fluoropyridin-4-yl)-1,7-naphthyridin-4-yl]amino]-2-methylpropan-1-ol; 1-[2-(3-chloropyridin-4-yl)-1,7-naphthyridin-4-yl]-2,2-dimethylpiperidin-4-ol; 2-(3-fluoropyridin-4-yl)-N-[2-methyl-1-(morpholin-4-yl)propan-2-yl]-1,7-naphthyridin-4-amine; N-tert-butyl-2-(3-chloropyridin-4-yl)-1,7-naphthyridin-4-amine; N-((1R,2S)-2-methylcyclopentyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; (S)-N-(sec-butyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-((1S,2R)-2-methylcyclopentyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; (R)-N-(sec-butyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-((1S,2S)-2-methylcyclopentyl)-2-(pyridin-4-yl)pyrido[3,4-d]pyrimidin-4-amine; N-((1R,2R)-2-methylcyclopentyl)-2-(pyridin-4-

yl)pyrido[3,4-*d*]pyrimidin-4-amine; 4-(4-methylpiperazin-1-yl)-2-(pyridin-4-yl)-1,7-naphthyridine; 4-(piperazin-1-yl)-2-(pyridin-4-yl)-1,7-naphthyridine; 4-(2-methylpiperidin-1-yl)-2-(pyridin-4-yl)-1,7-naphthyridine; 2-(pyridin-4-yl)-N-(1-(trifluoromethyl)cyclobutyl)-1,7-naphthyridin-4-amine; 2-methyl-N1-(2-(pyridin-4-yl)-1,7-naphthyridin-4-yl)propane-1,2-
 5 diamine; N-(oxetan-3-yl)-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; N-(1-methylcyclopropyl)-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; 4-(3,3-dimethylpiperazin-1-yl)-2-(pyridin-4-yl)-1,7-naphthyridine; 2,2-dimethyl-4-(2-(pyridin-4-yl)-1,7-naphthyridin-4-yl)morpholine; N-(1-methylcyclobutyl)-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; 2,2-dimethyl-N1-(2-(pyridin-4-yl)-1,7-naphthyridin-4-yl)propane-1,3-diamine; *N*²,*N*²,2-trimethyl-
 10 *N*¹-(2-(pyridin-4-yl)-1,7-naphthyridin-4-yl)propane-1,2-diamine; 4-(2-methylpiperazin-1-yl)-2-(pyridin-4-yl)-1,7-naphthyridine; 2-methyl-*N*¹-(2-(pyridin-4-yl)-1,7-naphthyridin-4-yl)propane-1,3-diamine; (*R*)-2-(pyridin-4-yl)-4-(3-(trifluoromethyl)piperazin-1-yl)-1,7-naphthyridine; N-(*tert*-butyl)-N-methyl-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine; *N*-(1-methylcyclobutyl)-2-(pyrimidin-4-yl)-1,7-naphthyridin-4-amine; *N*¹,*N*¹,3-trimethyl-*N*³-(2-
 15 (pyrimidin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)butane-1,3-diamine; *N*¹,*N*¹,3-trimethyl-*N*³-(2-(3-methyl-1H-pyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)butane-1,3-diamine; *tert*-butyl (2-methyl-1-((2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)amino)propan-2-yl)carbamate; *tert*-butyl (2-((2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)amino)ethyl)carbamate; *N,N*,2-trimethyl-2-((2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)amino)propanamide; *N*¹,3-dimethyl-
 20 *N*¹-(2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)butane-1,3-diamine; *tert*-butyl (2,2-dimethyl-3-((2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)amino)propyl)carbamate; 2,2-dimethyl-*N*¹-(2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)propane-1,3-diamine; 3-methyl-3-((2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)amino)butanamide; (*R*)-2-(pyridin-4-yl)-4-(3-(trifluoromethyl)piperazin-1-yl)pyrido[3,4-*d*]pyrimidine; 2,3-dimethyl-*N*²-(2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)butane-2,3-diamine; (*S*)-2-(pyridin-4-yl)-4-(3-(trifluoromethyl)piperazin-1-yl)pyrido[3,4-*d*]pyrimidine; ethyl 2-methyl-2-((2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)amino)propanoate; *N*¹,*N*¹,2,2-tetramethyl-*N*³-(2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)propane-1,3-diamine; 4-(4-(*tert*-butylamino)pyrido[3,4-*d*]pyrimidin-2-yl)-1,2,5-oxadiazol-3-amine; 2-methyl-2-((2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)amino)propanamide; (*S*)-1,1,1-trifluoro-2-methyl-3-((2-(pyridin-4-yl)-1,7-naphthyridin-4-yl)amino)propan-2-ol; 2-(3-chloropyridin-4-yl)-*N,N*-diethyl-1,7-naphthyridin-4-amine; N-propyl-2-(3-(trifluoromethyl)-1H-pyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-4-amine; *tert*-butyl (3-methyl-3-((2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)amino)butyl)carbamate; *N*¹,*N*¹,*N*³,2,2-pentamethyl-*N*³-(2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)propane-1,3-diamine; *N*¹,*N*¹-diethyl-3-methyl-*N*³-(2-(pyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)butane-1,3-diamine; *N*³-(2-(2-fluoropyridin-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)-*N*¹,*N*¹,3-trimethylbutane-1,3-diamine; *N*³-(2-(3,5-dimethyl-1H-pyrazol-4-yl)pyrido[3,4-*d*]pyrimidin-4-yl)-*N*¹,*N*¹,3-

- trimethylbutane-1,3-diamine; $N^1, N^1, 3$ -trimethyl- N^3 -(2-(3-(trifluoromethyl)-1H-pyrazol-4-yl)pyrido[3,4- d]pyrimidin-4-yl)butane-1,3-diamine; N^3 -(2-(2-aminopyridin-4-yl)pyrido[3,4- d]pyrimidin-4-yl)- $N^1, N^1, 3$ -trimethylbutane-1,3-diamine; and 3-methyl- N^1 -(2-(pyridin-4-yl)pyrido[3,4- d]pyrimidin-4-yl)butane-1,3-diamine, or a pharmaceutically acceptable salt thereof.
2. The compound according to claim 1, wherein the compound is N-tert-butyl-2-(pyridin-4-yl)-1,7-naphthyridin-4-amine, or a pharmaceutically acceptable salt thereof.
3. A pharmaceutical composition comprising a compound of claim 1 or claim 2, or a pharmaceutically acceptable salt thereof, as an active ingredient and at least one pharmaceutically acceptable excipient.
4. An ex-vivo method of inhibiting large tumor suppressor kinase (LATS) in a cell population comprising corneal endothelial cells or limbal stem cells using a compound of claim 1 or claim 2, or a pharmaceutically acceptable salt thereof.
5. A method of cell population expansion, comprising the step of a) culturing a seeding population of cells comprising corneal endothelial cells or limbal stem cells in the presence of a compound of claim 1 or claim 2, or a pharmaceutically acceptable salt thereof to generate an expanded population of cells comprising corneal endothelial cells or limbal stem cells.
6. The method of claim 5, wherein said method further comprises genetically modifying said corneal endothelial cells or limbal stem cells by reducing or eliminating the expression and/or function of a gene associated with facilitating a host versus graft immune response, such as, B2M, HLA-A, HLA-B, or HLA-C.
7. A cell population obtained by the method of claim 6, wherein the cell population optionally contains a non-naturally occurring insertion or deletion of one or more nucleic acid residues of a gene associated with facilitating a host versus graft immune response, wherein said insertion or deletion results in reduced or eliminated expression or function of said gene, such as, B2M, HLA-A, HLA-B, or HLA-C.
8. A cell proliferation medium comprising a compound of claim 1 or claim 2, or a pharmaceutically acceptable salt thereof, and a growth medium.

9. Use of the cell population of claim 7 in the manufacture of a medicament for the treatment or prophylaxis of an ocular disease or disorder.
- 5 10. Use of the cell population of claim 7 in the manufacture of a medicament for the treatment of limbal stem cell deficiency, wherein said cell population comprises limbal stem cells containing a non-naturally occurring insertion or deletion of one or more nucleic acid residues of a gene associated with facilitating a host versus graft immune response, wherein said insertion or deletion results in reduced or eliminated expression or function
- 10 of said gene, such as, B2M, HLA-A, HLA-B, or HLA-C.