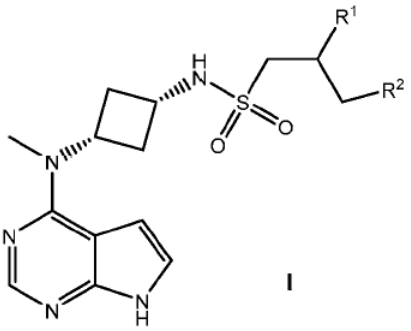
CLAIMS

What is claimed is:

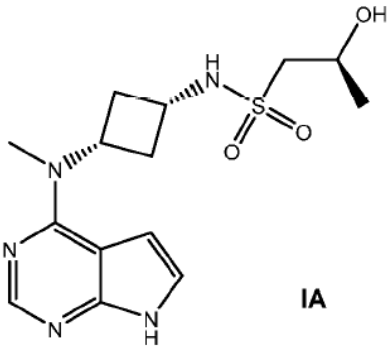
1. A compound of formula **I** having the structure:



I

or a pharmaceutically acceptable salt, wherein R^1 and R^2 are each independently hydrogen or hydroxy; wherein if R^1 is hydrogen, then R^2 is hydroxy; and, wherein if R^2 is hydrogen, then R^1 is hydroxy.

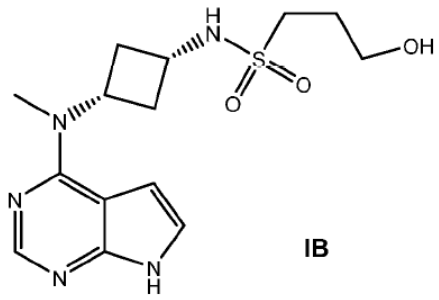
2. A compound of formula **IA** having the structure:



IA

or a pharmaceutically acceptable salt thereof.

3. A compound of formula **IB** having the structure:



IB

or a pharmaceutically acceptable salt thereof.

4. (S)-2-Hydroxy-N-(3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yDamino)cyclobut-yl)propane-1-sulfonamide or a pharmaceutically acceptable salt thereof.

5. 3-Hydroxy-N-(3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)cyclobutyl)pro-pane-1-sulfonamide or a pharmaceutically acceptable salt thereof.

6. The compound or a pharmaceutically acceptable salt thereof according to any one of claims 1 to 5 in an isolated form.

7. A pharmaceutical composition comprising a compound of claims 1 to 6, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable excipient.

~~8. A method of treating or preventing a disease or condition selected from inflammation, autoimmune disease, neuroinflammation, arthritis, rheumatoid arthritis, spondyloarthropathies, systemic lupus erythematous, lupus nephritis, osteoarthritis, gouty arthritis, pain, fever, pulmonary sarcoidosis, silicosis, cardiovascular disease, atherosclerosis, myocardial infarction, thrombosis, congestive heart failure and cardiac reperfusion injury, cardiomyopathy, stroke, ischemia, reperfusion injury, brain edema, brain trauma, neurodegeneration, liver disease, inflammatory bowel disease, Crohn's disease, ulcerative colitis, nephritis, retinitis, retinopathy, macular degeneration, glaucoma, diabetes (type 1 and type 2), diabetic neuropathy, viral and bacterial infection, myalgia, endotoxic shock, toxic shock syndrome, osteoporosis, multiple sclerosis, endometriosis, menstrual cramps, vaginitis, candidiasis, cancer, fibrosis, obesity, muscular dystrophy, polymyositis, dermatomyositis, autoimmune hepatitis, primary biliary cirrhosis, primary sclerosing cholangitis, vitiligo, Alzheimer's disease, skin flushing, eczema, psoriasis, atopic dermatitis, sunburn, keloid, hypertrophic scar, rheumatic diseases, urticaria, discoid lupus, cutaneous lupus, central nervous system lupus, psoriatic arthritis, asthma, allergic asthma, type I interferonopathies including Aicardi—Goutieres syndrome and other mendelian diseases of overexpression of type I interferon, primary progressive multiple sclerosis, relapsing remitting multiple sclerosis, non-alcoholic fatty liver disease, non-alcoholic steatohepatitis, scleroderma, alopecia areata, scarring alopecia, prurigo, prurigo nodularis, CPUO, lichen diseases, lichen planus, Steven's Johnson's syndrome, spondylopathy, myositis, vasculitis, pemphigus, lupus, major depression disorder, allergy, dry eye syndrome, transplant rejection, cancer, septic shock, cardiopulmonary dysfunction, acute respiratory disease, ankylosing spondylitis, cachexia, chronic graft-versus-host disease, acute graft-versus-host disease, Celiac Sprue, idiopathic thrombocytopenic thrombotic purpura, thrombotic thrombocytopenic purpura, myasthenia gravis, Sjogren's syndrome, epidermal hyperplasia, cartilage inflammation, bone degradation, juvenile arthritis, juvenile rheumatoid arthritis, pauciarticular juvenile rheumatoid arthritis, polyarticular juvenile rheumatoid arthritis,~~

~~systemic onset juvenile rheumatoid arthritis, juvenile ankylosing spondylitis, juvenile enteropathic arthritis, juvenile Reter's Syndrome, SEA Syndrome, juvenile dermatomyositis, juvenile psoriatic arthritis, juvenile scleroderma, juvenile systemic lupus erythematosus, juvenile vasculitis, pauciarticular rheumatoid arthritis, polyarticular rheumatoid arthritis, systemic onset rheumatoid arthritis, enteropathic arthritis, reactive arthritis, Reter's Syndrome, myolitis, polymyolitis, dermatomyolitis, polyarteritis nodossa, Wegener's granulomatosis, arteritis, polymyalgia rheumatica, sarcoidosis, sclerosis, primary biliary sclerosis, sclerosing cholangitis, dermatitis, Still's disease, chronic obstructive pulmonary disease, Guillain-Barre disease, Graves' disease, Addison's disease, Raynaud's phenomenon, psoriatic epidermal hyperplasia, plaque psoriasis, guttate psoriasis, inverse psoriasis, pustular psoriasis, erythrodermic psoriasis, an immune disorder associated with or arising from activity of pathogenic lymphocytes, noninfectious uveitis, Behcet's disease and Vogt-Koyanagi-Harada syndrome, comprising administering to a subject in need thereof a therapeutically effective amount of a compound of claim 1 to 7, or a pharmaceutically acceptable salt thereof.~~

~~9. The method of claim 8 wherein the compound is (S)-2-hydroxy-N-(3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)cyclobutyl)propane-1-sulfonamide; or, a pharmaceutically acceptable salt thereof, in an isolated form.~~

~~10. The method of claim 8 wherein the compound is 3-hydroxy-N-(3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)cyclobutyl)propane-1-sulfonamide; or, a pharmaceutically acceptable salt, in an isolated form.~~

~~11. The method of any of claims 8 to 10, wherein the disease or condition is atopic Dermatitis.~~

~~12. The method of any of claims 8 to 10, wherein the disease or condition is hand eczema~~.

~~13. The method of any of claims 8 to 10, wherein the disease or condition is cutaneous lupus.~~

8.~~14.~~ Use of a compound in an isolated form according to any of claims 1 to 7~~13~~ for the manufacture of a medicament for the treatment of a disorder for which a JAK1 inhibitor is indicated.