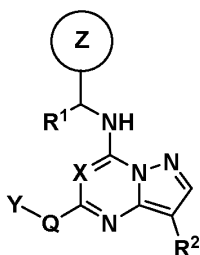


Claims

1. A compound having the general formula I



Formula I

wherein

X is, independently at each occurrence, selected from CH and N;

Q is either absent or independently, at each occurrence, selected from the group consisting of -NH-, -NH(CH₂)-, -NH(CH₂)₂-, -NH(C=O)-, -NHSO₂-, -O-, -O(CH₂)-, -(C=O)-, -(C=O)NH- and -(C=O)(CH₂)-;

Y is, independently at each occurrence, selected from the group consisting of C3-C8 cycloalkyl, aryl, heteroaryl, heterocyclyl, and C1-C6 alkyl, wherein C1-C6 alkyl is substituted with one or two of -OR⁵, -N(R⁵)R⁵, aryl, heteroaryl and heterocyclyl,

C3-C8 cycloalkyl can be substituted with one or two of R³, R⁴ and -(C=O)R⁵,

heterocyclyl can be substituted with one or two of R³, R⁴ and -(C=O)R⁵, and

aryl or heteroaryl can be substituted with one or two of R³, C1-C6 alkyl, -OR⁵, -N(R⁵)R⁵, -(C=O)R⁵, halogen, heteroaryl and heterocyclyl,

R¹ is, at each occurrence, independently selected from the group consisting of hydrogen and methyl;

R² is, at each occurrence, independently selected from the group consisting of halogen, C1-

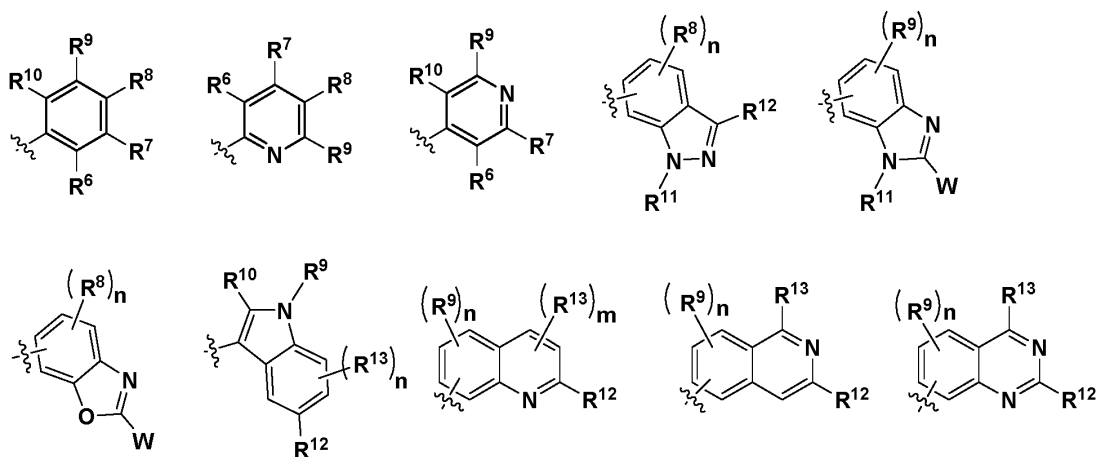
C6 alkyl, C3-C10 cycloalkyl, -CN, -(C=O)CH₃ and C1-C3 haloalkyl, any of which is optionally substituted;

R³ is either absent or independently, at each occurrence, selected from the group consisting of hydrogen, -OR⁵, halogen, -N(R⁵)R⁵, -NH(C=O)R⁵, -(C=O)NH₂, aryl, heteroaryl, heterocyclyl, C1-C6 alkyl and C1-C6 alkyl substituted with -OH or -NH₂;

R⁴ is, independently, at each occurrence, selected from the group consisting of hydrogen, halogen, -OR⁵, -N(R⁵)R⁵, (=O), aryl, heteroaryl, heterocyclyl, C1-C6 alkyl and C1-C6 alkyl substituted with -OH or -NH₂;

R⁵ is, at each occurrence, independently selected from the group consisting of hydrogen, C1-C6 alkyl, C3-C6 cycloalkyl, C1-C3 haloalkyl, heteroaryl, heterocyclyl, heteroaryl substituted with one or two of halogen, -OR¹¹, -N(R¹¹)R¹¹, C1-C6 alkyl and C1-C6 alkyl substituted with -OH, -NH₂, heterocyclyl substituted with one or two of halogen, -OR¹¹, -N(R¹¹)R¹¹, C1-C6 alkyl and C1-C6 alkyl substituted with -OH or -NH₂;

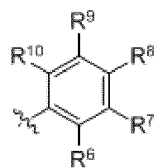
Z is any structure of the following group A;



Group A

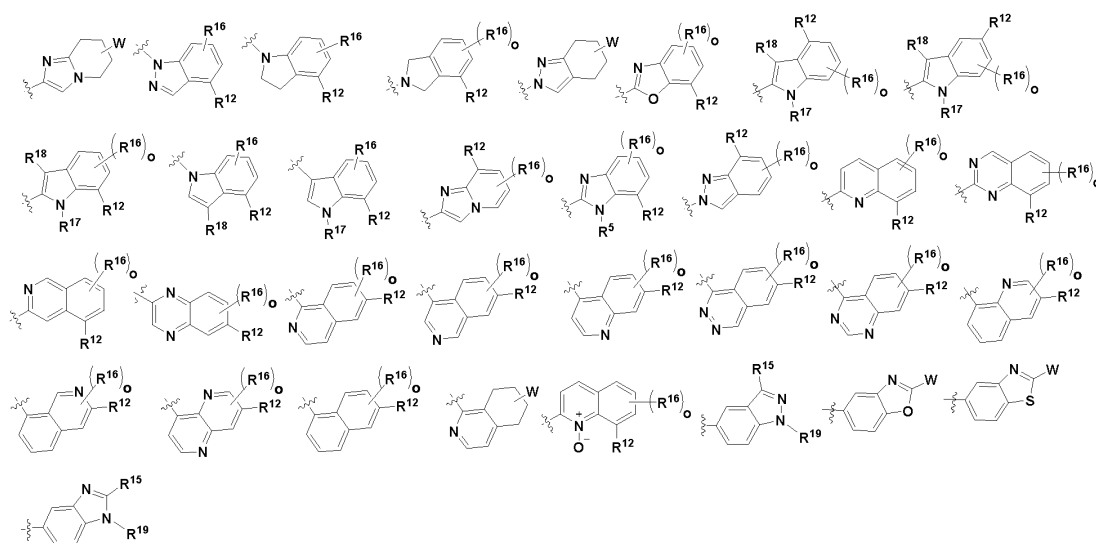
Wherein n= 1, 2, or 3; m= 1, or 2;

R⁶ and R⁷ are, at each occurrence, independently selected from the group consisting of hydrogen, -NH(C=O)R¹⁴, -NHR¹⁴, -OR¹⁴ and any structure of the following group B, with the



proviso that, when Z is

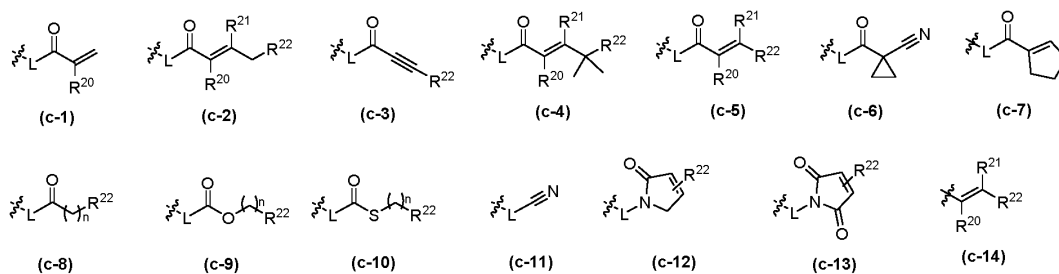
, one of R^6 and R^7 is not H;



Group B

wherein o is, independently at each occurrence, selected from 1, 2 and 3;

W is any structure of the following group C;



Group C

L is absent or, at each occurrence, independently selected from the group consisting of -O-

and -NH-;

wherein n is, independently at each occurrence, selected from 1, 2 and 3;

R^8 , R^9 and R^{10} are, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C1-C3 haloalkyl, -OR⁵, -CN and C1-C6 alkyl substituted with -OH, -OR⁵ or -NHR⁵;

R^{11} is, at each occurrence, independently selected from the group consisting of hydrogen, C1-C6 alkyl, C3-C10 cycloalkyl and W, as defined above;

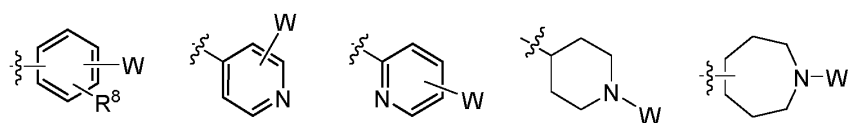
R^{12} is, at each occurrence, independently selected from hydrogen and W, as defined above;

Wherein if R^{11} is W, R^{12} is hydrogen;

R^{13} is, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C1-C3 haloalkyl, -NH₂, -OR⁵, -CN and W, as defined above;

Wherein if R^{13} is W, R^{12} is hydrogen;

R^{14} is any structure of group **D**;



Group **D**

R^{15} is, at each occurrence, independently selected from hydrogen and W, as defined above;

R^{16} is, at each occurrence, independently selected from the group consisting of hydrogen,

halogen, C1-C6 alkyl, C1-C3 haloalkyl, -NH₂, -OR⁵, -CN and W, as defined above;

Wherein if R¹⁶ is W, R¹² is hydrogen;

R¹⁷ is, at each occurrence, independently selected from the group consisting of hydrogen, C1-C6 alkyl and C1-C3 haloalkyl;

R¹⁸ is, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C1-C3 haloalkyl, -NH₂, -OR⁵ and -CN;

R¹⁹ is, at each occurrence, independently selected from the group consisting of hydrogen, C1-C6 alkyl, C3-C10 cycloalkyl and W, as defined above;

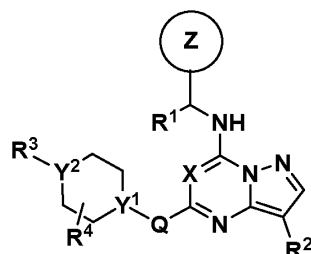
Wherein if R¹⁹ is W, R¹⁵ is hydrogen;

R²⁰ and R²¹ are, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C1-C3 haloalkyl, -OR⁵, heterocyclyl and -CN;

R²² is, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C3-C10 cycloalkyl, -N(R⁵)₂, -NR¹⁹R²⁰, -NR¹⁹CH₂(CO)NH₂, heterocyclyl, -OR⁵ and -CN;

or an enantiomer, stereoisomeric form, mixture of enantiomers, diastereomer, mixture of diastereomer, racemate of the above mentioned compounds or a pharmaceutically acceptable salt thereof.

2. The compound according to claim 1 having the general formula Ia



Formula Ia

wherein

X is, independently at each occurrence, selected from CH and N;

Y¹ is, independently at each occurrence, selected from CH, C(OH) and N;

Y² is, independently at each occurrence, selected from CH, C(OH) and N;

Q is absent or, at each occurrence, independently selected from the group consisting of -NH-, -NH(CH₂)-, -NH(C=O)-, -NHSO₂-, -O-, -O(CH₂)-, -(C=O)- and -(C=O)(CH₂)-;

R¹ is, at each occurrence, independently selected from the group consisting of hydrogen and methyl;

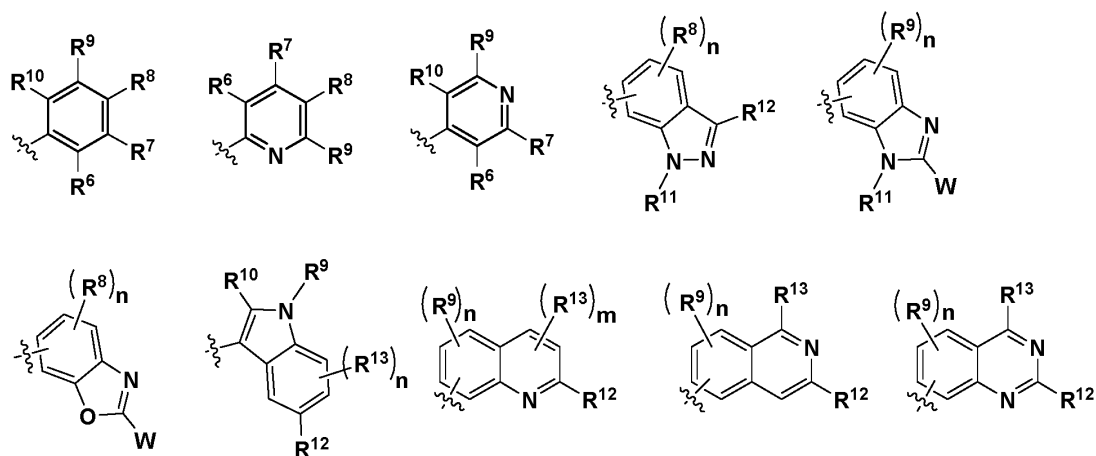
R² is, at each occurrence, independently selected from the group consisting of halogen, C1-C6 alkyl, C3-C10 cycloalkyl, -CN, -(C=O)CH₃ and C1-C3 haloalkyl, any of which is optionally substituted;

R³ is, at each occurrence, independently selected from the group consisting of hydrogen, -OH, halogen, -N(R⁵)₂, -NH(C=O)R⁵, -(C=O)NH₂, C1-C6 alkyl and C1-C6 alkyl substituted with -OH or -NH₂;

R⁴ is, at each occurrence, absent or independently selected from the group consisting of hydrogen, halogen, -OH, -OR⁵, -NH₂, C1-C6 alkyl and C1-C6 alkyl substituted with -OH or -NH₂;

R⁵ is, at each occurrence, independently selected from the group consisting of hydrogen, C1-C6 alkyl and C1-C3 haloalkyl;

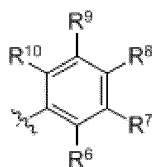
Z is any structure of the following group A;



Group A

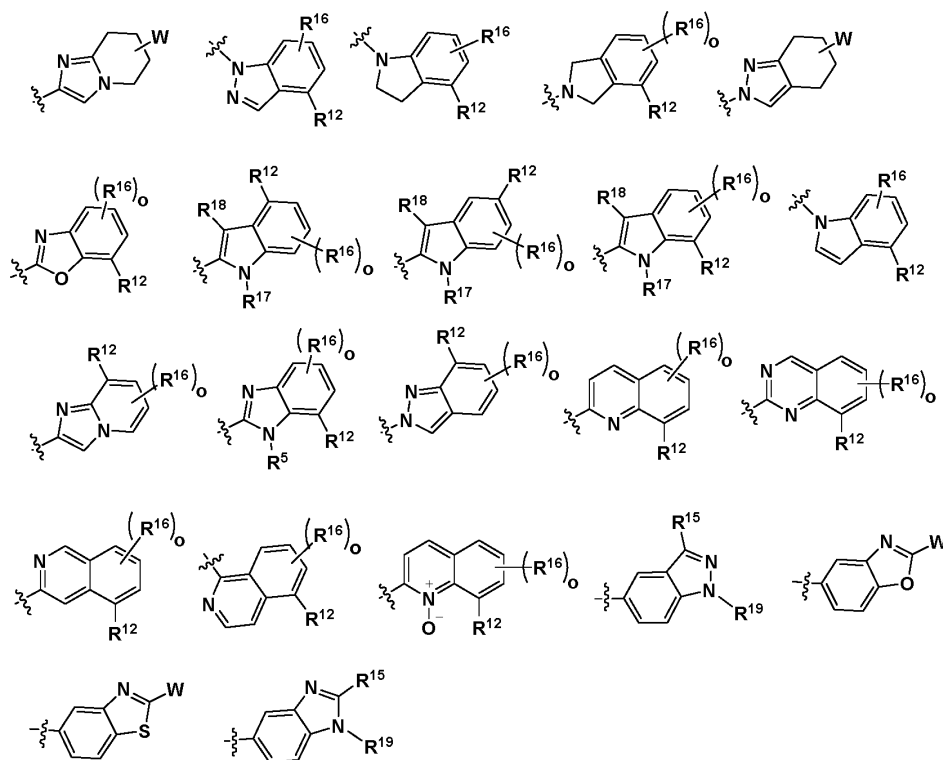
wherein $n = 1, 2$, or 3 ; $m = 1$, or 2 ;

R^6 and R^7 are, at each occurrence, independently selected from the group consisting of hydrogen, $-\text{NH}(\text{C}=\text{O})\text{R}^{14}$, $-\text{NHR}^{14}$, $-\text{OR}^{14}$ and any structure of the following group B, with the



proviso that, when Z is

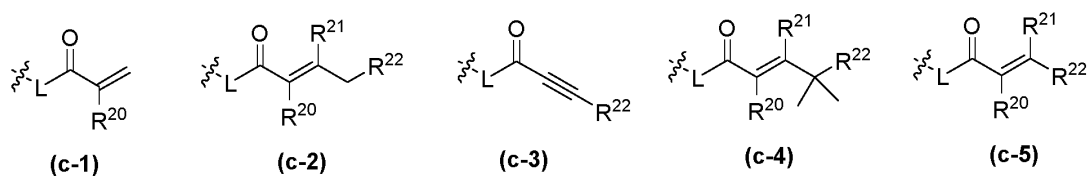
, one of R^6 and R^7 is not H;



Group B

wherein $\alpha = 1, 2$ or 3 ;

W is any structure of the following group C;



Group C

L is absent or, at each occurrence, independently selected from the group consisting of -O- and -NH-;

R⁸, R⁹ and R¹⁰ are, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C1-C3 haloalkyl, -OR⁵, -CN and C1-C6 alkyl substituted with -OH, -OR⁵ or -NHR⁵;

R¹¹ is, at each occurrence, independently selected from the group consisting of hydrogen, C1-

C6 alkyl, C3-C10 cycloalkyl and W, as defined above;

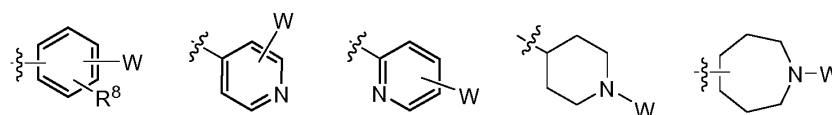
R¹² is, at each occurrence, independently selected from hydrogen and W, as defined above;

wherein if R¹¹ is W, R¹² is hydrogen;

R¹³ is, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C1-C3 haloalkyl, -NH₂, -OR⁵, -CN and W, as defined above;

wherein if R¹³ is W, R¹² is hydrogen;

R¹⁴ is any structure of group **D**;



Group **D**

R¹⁵ is, at each occurrence, independently selected from hydrogen and W, as defined above;

R¹⁶ is, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C1-C3 haloalkyl, -NH₂, -OR⁵, -CN and W, as defined above;

wherein if R¹⁶ is W, R¹² is hydrogen;

R¹⁷ is, at each occurrence, independently selected from the group consisting of hydrogen, C1-C6 alkyl and C1-C3 haloalkyl;

R¹⁸ is, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C1-C3 haloalkyl, -NH₂, -OR⁵ and -CN;

R¹⁹ is, at each occurrence, independently selected from the group consisting of hydrogen, C1-C6 alkyl, C3-C10 cycloalkyl and W, as defined above;

wherein if R¹⁹ is W, R¹⁵ is hydrogen;

R²⁰ and R²¹ are, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C1-C3 haloalkyl, -OR⁵, heterocycle and -CN;

R²² is, at each occurrence, independently selected from the group consisting of hydrogen, halogen, C1-C6 alkyl, C3-C10 cycloalkyl, -N(R⁵)₂, -NR¹⁹R²⁰, heterocycle, -OR⁵ and -CN;

or an enantiomer, stereoisomeric form, mixture of enantiomers, diastereomer, mixture of diastereomer, racemate of the above mentioned compounds or a pharmaceutically acceptable salt thereof.

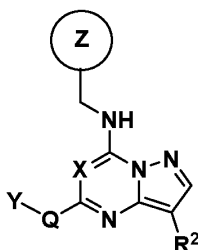
3. The compound according to claim 1 or 2

wherein at least one of Z, R⁶, R⁷, R¹¹, R¹², R¹³, R¹⁵, R¹⁶ and R¹⁹ is W, as defined in claim 1, or is a structure containing W, as defined in claim 1.

4. The compound according to any of claims 1 – 3, wherein exactly one of Z, R⁶, R⁷, R¹¹, R¹², R¹³, R¹⁵, R¹⁶ and R¹⁹ is W, as defined in claim 1, or is a structure containing W, as defined in claim 1.

5. The compound according to claim 1

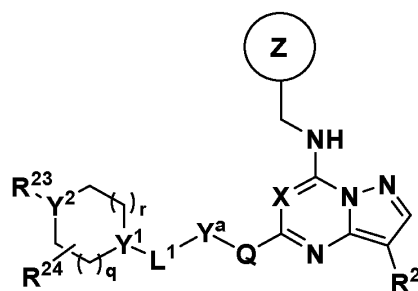
wherein R¹ is hydrogen and the compound has the general formula II



Formula II

wherein X, Y, Z, R² and Q are as defined in claim 1.

6. The compound according to any of claims 1 and 3, having the general formula III



Formula III

wherein X, Z, R^2 and Q are as defined in claim 1, and

Y^a is either absent or independently, at each occurrence, selected from the group consisting of aryl, heteroaryl, heterocyclyl, aryl substituted with one or two of C1-C6 alkyl, $-OR^5$, $-N(R^5)R^5$, and halogen, heteroaryl substituted with one or two of C1-C6 alkyl, $-OR^5$, $-N(R^5)R^5$ and halogen, heterocyclyl substituted with one or two of R^{23} and R^{24} ;

R^{23} is either absent or independently, at each occurrence, selected from the group consisting of hydrogen, $-OR^5$, halogen, $-N(R^5)R^5$, $-NH(C=O)R^5$, $-(C=O)NH_2$, aryl, heteroaryl, heterocyclyl, C1-C6 alkyl and C1-C6 alkyl substituted with $-OH$ or $-NH_2$;

R^{24} is, independently, at each occurrence, selected from the group consisting of hydrogen, halogen, $-OR^5$, $-N(R^5)R^5$, $(=O)$, aryl, heteroaryl, heterocyclyl, C1-C6 alkyl and C1-C6 alkyl substituted with $-OH$ or $-NH_2$;

wherein R^5 is as defined in claim 1;

L^1 is either absent or independently, at each occurrence, selected from the group consisting of $-NH-$, $-NH(CH_2)-$, $-NH(C=O)-$, $-NHSO_2-$, $-O-$, $-O(CH_2)-$, $-(C=O)-$, $-(C=O)NH-$ and $-(C=O)(CH_2)-$;

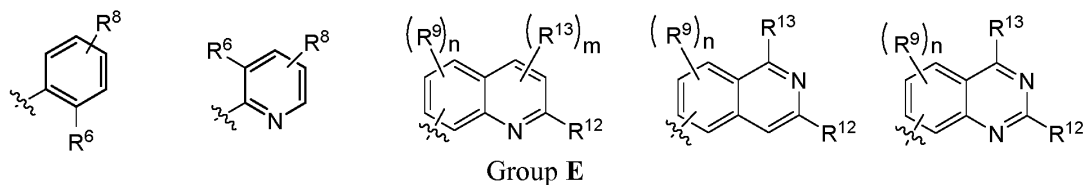
Y^1 is, independently at each occurrence, selected from CH, C(OH) and N;

Y^2 is, independently at each occurrence, selected from CH, C(OH), O and N;

q is, independently at each occurrence, selected from 0, 1 and 2;

r is, independently at each occurrence, selected from 0, 1, 2 and 3;

7. The compound according to any of claims 1 – 6, wherein Z is Z^1 , and Z^1 is any structure of the following group **E**;



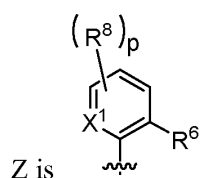
wherein m is, independently at each occurrence, selected from 1 and 2; and
n is as defined in claim 1;

R^8 , R^9 , R^{12} and R^{13} are as defined in claim 1;

R^6 is any structure of group **B** as defined in claim 1.

8. The compound according to any of claims 1 - 6,

wherein



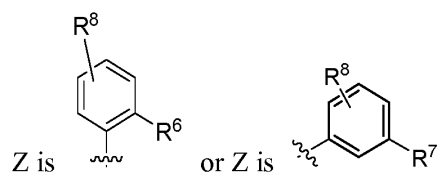
p is, independently at each occurrence, selected from 0, 1, 2 and 3;

X^1 is, independently at each occurrence, selected from CR^8 and N;

R^6 is any structure of group **B**, as defined in claim 1; and

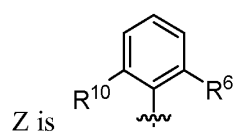
R^8 is as defined in claim 1.

9. The compound according to any of the foregoing claims, wherein



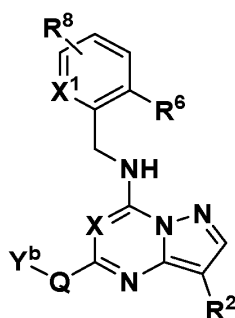
wherein $R^6 - R^8$ are as defined in claim 1.

10. The compound according to any of the foregoing claims, wherein



wherein R^6 and R^{10} are as defined in claim 1.

11. The compound according to any of the foregoing claims, having the general formula IV

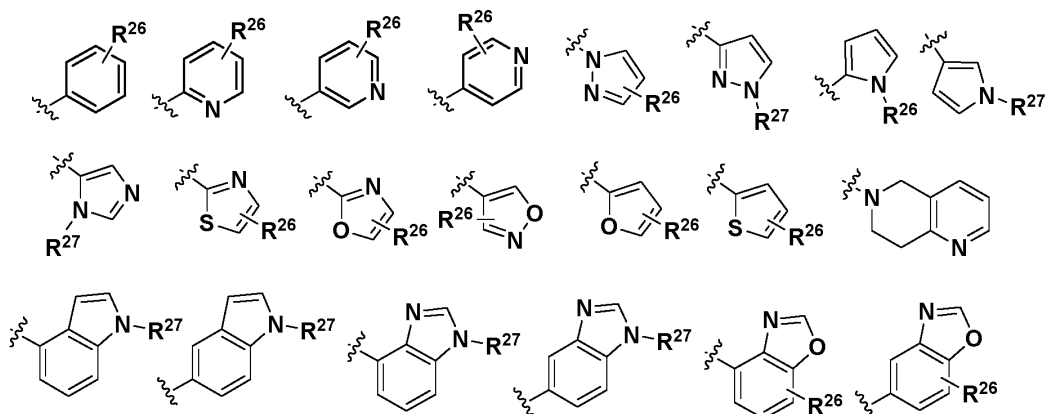


Formula IV

wherein X, X^1 , R^6 , R^8 and Q are as defined in claim 1, and

X^1 is as defined in claim 8;

wherein Y^b is any structure of the following group F;



Group F

R²⁶ and R²⁷ is either absent or independently, at each occurrence, selected from the group consisting of hydrogen, -OR⁵, halogen, -N(R⁵)R⁵, -NH(C=O)R⁵, -(C=O)NH₂, aryl, heteroaryl, heterocyclyl, C1-C6 alkyl and C1-C6 alkyl substituted with -OH or -NH₂;

wherein R⁵ is as defined in claim 1.

12. The compound according to any of the foregoing claims, wherein R² is C1 –C6 alkyl.

13. The compound according to any of the foregoing claims, having a structure selected from structures 1 –88, as defined in table 6.

14. A pharmaceutical composition comprising a compound according to any of claims 1 - 13 as an active ingredient, together with at least one pharmaceutically acceptable carrier, excipient and/or diluent.

15. A compound according to claim 1 - 13 for use as pharmaceutically active agent, wherein said pharmaceutically active agent preferably has an inhibitory activity on cyclin-dependent kinase 7 (CDK7).

16. A compound according to any one of claims 1 to 13 for use in a method of prevention and/or treatment of a disease which is associated with inhibition of apoptosis, abnormal transcriptional activity and/or cell cycle arrest by aberrant activity and/or overexpression of one or several cyclin-dependent kinases (CDKs), in particular cyclin-dependent kinase 7 (CDK7), wherein the disease is selected from proliferative diseases, infectious diseases, including opportunistic diseases, immunological diseases, autoimmune diseases, and

inflammatory diseases.

17. The compound for use according to claim 16, wherein the proliferative disease is a cancer, preferably a cancer selected from the group comprising or consisting of: adenocarcinoma, choroidal melanoma, acute leukemia, acoustic neurinoma, ampullary carcinoma, anal carcinoma, astrocytoma, basal cell carcinoma, pancreatic cancer, Desmoid tumor, bladder cancer, bronchial carcinoma, estrogen dependent and independent breast cancer, Burkitt's lymphoma, corpus cancer, Carcinoma unknown primary tumor (CUP-syndrome), colorectal cancer, small intestine cancer, small intestinal tumors, ovarian cancer, endometrial carcinoma, ependymoma, epithelial cancer types, Ewing's tumors, gastrointestinal tumors, gastric cancer, gallbladder cancer, gall bladder carcinomas, uterine cancer, cervical cancer, cervix, glioblastomas, gynecologic tumors, ear, nose and throat tumors, hematologic tumor, hairy cell leukemia, urethral cancer, skin cancer, skin testis cancer, brain tumors (gliomas), brain metastases, testicle cancer, hypophysis tumor, carcinoids, Kaposi's sarcoma, laryngeal cancer, germ cell tumor, bone cancer, colorectal carcinoma, head and neck tumors (tumors of the ear, nose and throat area), colon carcinoma, craniopharyngiomas, oral cancer (cancer in the mouth area and on lips), cancer of the central nervous system, liver cancer, liver metastases, leukemia, eyelid tumor, lung cancer, lymphomas, stomach cancer, malignant melanoma, malignant neoplasia, malignant tumors gastrointestinal tract, breast carcinoma, rectal cancer, medulloblastomas, melanoma, meningiomas, Hodgkin's / Non-Hodgkin's lymphoma, mycosis fungoides, nasal cancer, neurinoma, neuroblastoma, kidney cancer, renal cell carcinomas, oligodendroglioma, esophageal carcinoma, osteolytic carcinomas and osteoplastic carcinomas, osteosarcomas, ovarian carcinoma, pancreatic carcinoma, penile cancer, plasmacytoma, prostate cancer, pharyngeal cancer, rectal carcinoma, retinoblastoma, vaginal cancer, thyroid carcinoma, esophageal cancer, T-cell lymphoma, thymoma, tube carcinoma, eye tumors, urethral cancer, urologic tumors, urothelial carcinoma, vulva cancer, wart appearance, soft tissue tumors, soft tissue sarcoma, Nephroblastoma, cervical carcinoma, tongue cancer, invasive ductal carcinoma, invasive lobular carcinoma, ductal carcinoma in situ, lobular carcinoma in situ, small-cell lung carcinoma, non-small-cell lung carcinoma, bronchial adenoma, pleuropulmonary blastoma, mesothelioma, brain stem glioma, hypothalamic glioma, cerebellar astrocytoma, cerebral astrocytoma, neuroectodermal tumor,

pineal tumors, sarcoma of the uterus, salivary gland cancers, anal gland adenocarcinomas, mast cell tumors, pelvis tumor, ureter tumor, hereditary papillary renal cancers, sporadic papillary renal cancers, intraocular melanoma, hepatocellular carcinoma, cholangiocarcinoma, mixed hepatocellular cholangiocarcinoma, squamous cell carcinoma, malignant melanoma, Merkel cell skin cancer, non-melanoma skin cancer, hypopharyngeal cancer, nasopharyngeal cancer, oropharyngeal cancer, oral cavity cancer, squamous cell cancer, oral melanoma, AIDS-related lymphoma, cutaneous T-cell lymphoma, lymphoma of the central nervous system, malignant fibrous histiocytoma, lymph sarcoma, rhabdomyosarcoma, malignant histiocytosis, fibroblastic sarcoma, hemangiosarcoma, hemangiopericytoma, leiomyosarcoma (LMS), canine mammary carcinoma, and feline mammary carcinoma.

18. The compound for use according to claim 16, wherein the infectious disease including opportunistic diseases is selected from the group comprising or consisting of AIDS, Adenovirus Infection, Alveolar Hydatid Disease (AHD), Amoebiasis, Angiostrongyliasis, Anisakiasis, Anthrax, Babesiosis, Balantidiasis, Baylisascaris Infection, Bilharzia (Schistosomiasis), Blastocystis hominis Infection, Lyme Borreliosis, Botulism, Brainerd Diarrhea, Brucellosis, Bovine Spongiform Encephalopathy (BSE), Candidiasis, Capillariasis, Chronic Fatigue Syndrome (CFS), Chagas Disease, Chickenpox, Chlamydia pneumoniae Infection, Cholera, Chronic Fatigue Syndrome, Creutzfeldt-Jakob Disease (CJD), Clonorchiasis, Cutaneous Larva migrans (CLM), Coccidioidomycosis, Conjunctivitis, Coxsackievirus A16 (Cox A16), Cryptococcal disease, Cryptosporidiosis, West Nile fever, Cyclosporiasis, Neurocysticercosis, Cytomegalovirus Infection, Dengue Fever, Dipylidium caninum Infection, Ebola Hemorrhagic Fever (EHF), Alveolar Echinococcosis (AE), Encephalitis, Entamoeba coli Infection, Entamoeba dispar Infection, Entamoeba hartmanni Infection, Entamoeba polecki Infection, Pinworm Infection, Enterovirus Infection (Polio / Non-Polio), Epstein Barr Virus Infection, Escherichia coli Infection, Foodborne Infection, Aphthae epizooticae, Fungal Dermatitis, Fungal Infections, Gastroenteritis, Group A streptococcal Disease, Group B streptococcal Disease, Hansen's Disease (Leprosy), Hantavirus Pulmonary Syndrome, Head Lice Infestation (Pediculosis), Helicobacter pylori Infection, Hematologic Disease, Hendra Virus Infection, Hepatitis (HCV, HBV), Herpes Zoster (Shingles), HIV Infection, Human Ehrlichiosis, Human Parainfluenza Virus Infection, Influenza, Isosporiasis, Lassa Fever, Leishmaniasis, Visceral leishmaniasis (VL), Malaria, Marburg Hemorrhagic Fever, Measles, Meningitis, Mycobacterium avium Complex (MAC)

Infection, Naegleria Infection, Nosocomial Infections, Nonpathogenic Intestinal Amebae Infection, Onchocerciasis, Opisthorchiasis, Papilloma virus Infection, Parvovirus Infection, Plague, Pneumocystis Pneumonia (PCP), Polyomavirus Infection, Q Fever, Rabies, Respiratory Syncytial Virus (RSV) Infection, Rheumatic Fever, Rift Valley Fever, Rotavirus Infection, Roundworms Infection, Salmonellosis, Scabies, Shigellosis, Shingles, Sleeping Sickness, Smallpox, Streptococcal Infection, Tapeworm Infection, Tetanus, Toxic Shock Syndrome, Tuberculosis, duodenum, Vibrio parahaemolyticus Infection, Vibrio septicemia, Viral Hemorrhagic Fever, Warts, Waterborne infectious Diseases, Varicella-Zoster Virus infection, Pertussis and Yellow Fever.

19. The compound for use according to claim 16, wherein the immunological disease and/or autoimmune disease is selected from the group comprising or consisting of: asthma, diabetes, rheumatic diseases, AIDS, rejection of transplanted organs and tissues, rhinitis, chronic obstructive pulmonary diseases, osteoporosis, ulcerative colitis, sinusitis, lupus erythematosus, recurrent infections, atopic dermatitis / eczema and occupational allergies, food allergies, drug allergies, severe anaphylactic reactions, anaphylaxis, manifestations of allergic diseases, primary immunodeficiencies, antibody deficiency states, cell mediated immunodeficiencies, severe combined immunodeficiency, DiGeorge syndrome, Hyper IgE syndrome (HIES), Wiskott-Aldrich syndrome (WAS), ataxia-telangiectasia, immune mediated cancers, white cell defects, autoimmune diseases, systemic lupus erythematosus (SLE), rheumatoid arthritis (RA), multiple sclerosis (MS), immune-mediated or Type 1 Diabetes Mellitus, immune mediated glomerulonephritis, scleroderma, pernicious anemia, alopecia, pemphigus, pemphigus vulgaris, myasthenia gravis, inflammatory bowel diseases, Crohn's disease, psoriasis, autoimmune thyroid diseases, Hashimoto's disease, dermatomyositis, Goodpasture syndrome (GPS), myasthenia gravis (MG), Sympathetic ophthalmia, Phakogene Uveitis, chronic aggressive hepatitis, primary biliary cirrhosis, autoimmune hemolytic anemia, and Werlhof's disease.

20. The compound for use according to claim 16, wherein the inflammatory disease is caused, induced, initiated and/or enhanced by bacteria, viruses, prions, parasites, fungi, and/or caused by irritative, traumatic, metabolic, allergic, autoimmune, or idiopathic agents.

21. The compound for use according to claim 16 or 20, wherein the inflammatory disease is selected from the group comprising or consisting of inflammatory diseases of the central nervous system (CNS), inflammatory rheumatic diseases, inflammatory diseases of blood vessels, inflammatory diseases of the middle ear, inflammatory bowel diseases, inflammatory diseases of the skin, inflammatory disease uveitis, and inflammatory diseases of the larynx.

22. The compound for use according to any of claims 16, 20 or 21, wherein the inflammatory disease is selected from inflammatory diseases of the central nervous system (CNS), inflammatory rheumatic diseases, inflammatory diseases of blood vessels, inflammatory diseases of the middle ear, inflammatory bowel diseases, inflammatory diseases of the skin, inflammatory disease uveitis, inflammatory diseases of the larynx, wherein preferably said inflammatory diseases are selected from the group comprising abscessation, acanthamoeba infection, acne vulgaris, actinomycosis, acute inflammatory dermatoses, acute laryngeal infections of adults, acute multifocal placoid pigment epitheliopathy, acute (thermal) injury, acute retinal necrosis, acute suppurative otitis media, algal disorders, allergic contact dermatitis, amyloidosis angioedema, ankylosing spondylitis, aspergillosis, atopic dermatitis, pseudorabies, autoantibodies in vasculitis, bacterial disorders, bacterial laryngitis, bacterial meningitis, Behçet's disease (BD), birdshot choroidopathy, Gilchrist's disease, Borna disease, brucellosis, bullous myringitis, bursitis, candidiasis, canine distemper encephalomyelitis, canine distemper encephalomyelitis in immature animals, canine hemorrhagic fever, canine herpes virus encephalomyelitis, cholesteatoma, chronic granulomatous diseases (CGD), chronic inflammatory dermatoses, chronic relapsing encephalomyelitis, chronic suppurative otitis media, Ocular Cicatricial pemphigoid (OCP), common upper respiratory infection, granuloma, Crohn's disease, cryptococcal disease, dermatomyositis, diphtheria, discoid lupus erythematosus (DLE), drug-induced vasculitis, drug or hypersensitivity reaction, encephalitozoonosis, eosinophilic meningoencephalitis, Erythema multiforme (EM), feline leukemia virus, feline immunodeficiency virus, feline infectious peritonitis, feline Polioencephalitis, feline spongiform encephalopathy, fibromyalgia, Fuchs Heterochromic Uveitis, gastroesophageal (laryngopharyngeal) reflux disease, giant cell arteritis, glanders, glaucomatocyclitic crisis, gonorrhea granular myringitis, Granulomatous meningoencephalitis (GME), herpes simplex, histoplasmosis, idiopathic diseases, idiopathic

inflammatory disorders, immune and idiopathic disorders, infections of the immunocompromised host, infectious canine hepatitis, inhalation laryngitis, interstitial nephritis, irritant contact dermatitis, juvenile rheumatoid arthritis, Kawasaki's disease, La Crosse virus encephalitis, laryngeal abscess, laryngotracheobronchitis, leishmaniasis, lens-induced uveitis, leprosy, leptospirosis, leukemia, lichen planus, lupus, lymphoma, meningitis, meningoencephalitis in greyhounds, miscellaneous meningitis / meningoencephalitis, microscopic polyangiitis, multifocal choroiditis, multifocal distemper encephalomyelitis in mature animals, multiple sclerosis, Muscle Tension Dysphonia (MTD), mycotic (fungal) diseases, mycotic diseases of the CNS, necrotizing encephalitis, neosporosis, old dog encephalitis, onchocerciasis, parasitic encephalomyelitis, parasitic infections, Pars planitis, parvovirus encephalitis, pediatric laryngitis, pollution and inhalant allergy, polymyositis, post-vaccinal canine distemper encephalitis, prion protein induced diseases, protothecosis, protozoal encephalitis-encephalomyelitis, psoriasis, psoriatic arthritis, pug dog encephalitis, radiation injury, radiation laryngitis, radionecrosis, relapsing polychondritis, Reiter's syndrome, retinitis pigmentosa, retinoblastoma, rheumatoid arthritis, Rickettsial disorders, rocky mountain spotted fever, salmon poisoning disease (SPD), Sarcocystosis, sarcoidosis, schistosomiasis, scleroderma, Rhinoscleroma, serpiginous choroiditis, shaker dog disease, Sjogren's syndrome, spasmodic croup, spirochetal (syphilis) diseases, spongiotic dermatitis, sporotrichosis, steroid responsive meningitis-arteritis, Stevens-Johnson syndrome (SJS, EM major), epiglottitis, sympathetic ophthalmia, Syngamosis, syphilis, systemic vasculitis in sarcoidosis, Takayasu's arteritis, tendinitis (tendonitis), Thromboangiitis obliterans (Buerger Disease), tick-borne encephalitis in dogs, toxic epidermal necrolysis (TEN), toxocariasis, toxoplasmosis, trauma, traumatic laryngitis, trichinosis, trypanosomiasis, tuberculosis, tularemia, ulcerative colitis, urticaria (hives), vasculitis, vasculitis and malignancy, vasculitis and rheumatoid arthritis, vasculitis in the idiopathic inflammatory myopathies, vasculitis of the central nervous system, vasculitis secondary to bacterial, fungal, and parasitic infection, viral disorders, viral laryngitis, vitiligo, vocal abuse, vocal-cord hemorrhage, Vogt-Koyanagi- Harada syndrome (VKH), Wegener's granulomatosis, and Whipple's disease.