

Dr. Duke's Phytochemical and Ethnobotanical Databases
Biological Activities found in Zingiber officinale

Activity	Chemical Count
(-)-Chronotropic	3
(-)-Inotropic	3
11B-HSD-Inhibitor	2
12-Lipoxygenase-Inhibitor	1
5-Alpha-Reductase-Inhibitor	7
5-HETE-Inhibitor	1
5-Lipoxygenase-Inhibitor	6
8-HETE-Inhibitor	1
Abortifacient	2
Absorbent	1
Acaricide	10
ACE-Inhibitor	5
Acetylcholinergic	1
AChE-Inhibitor	1
Acidulant	2
Addictive	1
Adjuvant	1
Adrenergic	1
Aggregant	1
Aldehyde-Oxidase-Inhibitor	1
Aldose-Reductase-Inhibitor	14
Allelochemic	9
Allelopathic	8
Allergenic	28
Alpha-Reductase-Inhibitor	1
Amphiglycemic?	1
Amphitensive	1

Activity	Chemical Count
Analeptic	1
Analgesic	22
Anaphrodisiac	1
Anaphylactic	1
Androgenic	2
Androgenic?	1
Anemiagenic	2
Anesthetic	6
Angiogenic	1
Angiotensin-Receptor-Blocker	3
Anorexic	2
Anthelmintic	3
Anti-5-HT	4
Antiacetylcholine	1
Antiacetylcholinesterase	8
Antiacid	1
Antiacne	14
Antiacrodermatitic	1
Antiacrodynic	1
AntiADD	1
AntiAddisonian	1
Antiadenomacarcinogenic	1
Antiadenomic	3
Antiadenoviral	1
Antiadrenalinic	1
Antiaflatoxin	4
AntiAGE	2

Activity	Chemical Count
Antiaggregant	15
Antiaging	5
Antiakathisic	1
Antialcoholic	5
Antialdosteronic	1
Antialkali?	1
Antialkalotic	1
Antiallergenic	2
Antiallergic	15
Antialopepic	4
Antialzheimeran	7
Antialzheimeran?	1
Antiamblyopic	1
Antiamyloid-Beta	1
Antianaphylactic	4
Antiandrogenic	4
Antianemic	4
Antianginal	2
Antiangiogenic	4
Antianorectic	2
Antianorexic	1
Antianoxic	1
Antianxiety	3
Antiarabiflavinotic	1
Antiarachidonate	2
Antiarrhythmic	5
Antiarteriosclerotic	3

Activity	Chemical Count
Antiarthritic	12
Antiasthmatic	10
Antiataxic	1
Antiatherogenic	1
Antiatherosclerotic	9
Antibacillary	1
Antibackache	1
Antibacterial	43
Antiberiberi	1
Antibiotic	1
AntiBPH	1
Antibronchitic	3
Anticancer	11
Anticancer (Breast)	2
Anticancer (Cervix)	2
Anticancer (Colon)	3
Anticancer (Duodenum)	1
Anticancer (Forestomach)	2
Anticancer (Liver)	2
Anticancer (Lung)	1
Anticancer (Mammary)	1
Anticancer (Pancreas)	2
Anticancer (Skin)	3
Anticancer (Stomach)	1
Anticanker	3
Anticarcinogenic	4
Anticarcinomic	1

Activity	Chemical Count
Anticarcinomic (Breast)	1
Anticarcinomic (Colon)	1
Anticarcinomic (Lung)	1
Anticardiospasmic	1
Anticariogenic	10
Anticarpal-Tunnel	1
Anticataract	10
Anticatarrh	1
Anticephalagic	4
Anticerebrotic	1
Anticervicaldysplasic	3
AntiCFS	3
Anticheilitic	2
Antichilblain	1
Anticholecystosic	1
Anticholeretic	1
Anticholinesterase	1
Antichoreic	1
Anticirrhotic	2
Anticirrhotic?	1
Anticlastogen	1
Anticlaudificant?	1
Anticlimacteric	4
Anticoccidioid	1
Anticoeliac	1
Anticold	2
Anticolitic	1

Activity	Chemical Count
Anticolitic	4
Anticollagenic	1
Anticolonospasmic	1
Anticomplementary	1
Anticonvulsant	8
Anticorneotic	1
Anticoronary	5
AntiCrohn's	4
AntiCTS	1
Anticystitic	1
Anticytotoxic	1
Antidandruff	2
Antidecubitic	3
Antideliriant	1
Antidementia	6
Antidepressant	10
Antidepressant?	1
Antidermatitic	4
Antidiabetic	11
Antidiabetic?	1
Antidiarrheic	1
Antidiscotic	1
Antidote (Acetaminophen)	1
Antidote (Aluminum)	2
Antidote (Cadmium)	2
Antidote (Hypoglycin-A)	1
Antidote (Iodine)	1

Activity	Chemical Count
Antidote (Lead)	3
Antidote (Mercury)	1
Antidote (Paracetamol)	1
Antidote (Paraquat)	1
Antidrepanocytic	1
Antidysenteric	1
Antidysgeuzic	1
Antidyskinetic	3
Antidysmenorrhic	2
Antidyspeptic	1
Antidysphagic	1
AntiEBV	4
Antieczemic	7
Antiedemic	8
Antieicosanoid	1
Antielastase	2
Antiemetic	4
Antiemetic?	1
Antiencephalitic	2
Antiencephalopathic	7
Antiencephalopathic?	1
Antiendometriotic	2
Antienterotic	1
Antiepileptic	5
Antiescherichic	4
Antiesophagitic	1
Antiestrogenic	4

Activity	Chemical Count
Antifatigue	9
Antifeedant	14
Antifertility	3
Antifibrinolytic	2
Antifibromyalgic	1
Antifibrosarcomic	1
Antifibrositic	1
Antifibrotic	3
Antiflu	5
Antifuruncular	1
Antigallstone	1
Antigastric	2
Antigastritic	3
Antigastrotic	1
Antigenotoxic	2
Antigingivitic	3
Antiglaucomic	2
Antigliomic	1
Antiglossitic	1
Antiglutamaergic	1
Antiglycosuric	1
Antigonadotrophic	3
Antigonadotropic	3
Antigout	1
Antigranular	1
AntiGTF	1
Antihalitotic	1

Activity	Chemical Count
Antihangover	5
Antiheartburn	1
Antihelicobacter	3
Antihemolytic	2
Antihemorrhagic	1
Antihepatitic	2
Antihepatoadenomic	1
Antihepatotic	2
Antihepatotoxic	10
Antiherpetic	11
Antiherpetic?	1
Antihiccup	1
Antihistaminic	15
AntiHIV	7
Antihomocystinuric	1
Antihydrophobic	1
Antihyperactivity	1
Antihyperammonemic	1
Antihypercholesterolemic	3
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperlipoproteinaemic	1
Antihypertensive	10
Antihyperthyroid	2
Antihypoglycemic	1
Antiichthyotic	1
Antielus?	1

Activity	Chemical Count
Antiimplantation	1
Antiimpotence	2
Antiinfective	1
Antiinfertility	3
Antiinflammatory	38
Antiinsomniac	5
Antiinsomniac?	1
Antiinsomnic	2
Antiintegrase	1
Antiischemic	2
Antikeratitic	1
Antikeratotic	1
Antikeshan	1
Antiketotic	2
Antilactobacillic	1
Antilaryngitic	1
AntiLegionella	2
Antileishmanic	4
Antileptic	2
Antilethargic	1
Antileukemic	11
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	5
Antileukotriene-D4	4
Antilipoperoxidant	3
Antilisteria	1

Activity	Chemical Count
Antilithic	6
Antilithic?	1
Antilupus	1
AntiLyme	5
Antilymphocytic	1
Antilymphomic	5
Antimaculitic	4
Antimalarial	5
Antimange	1
Antimanic	2
Antimastalgic	2
Antimastitic	1
Antimeasles	1
Antimelanogenic	2
Antimelanomic	7
AntiMeniere's	1
Antimenopausal	5
Antimenorrhagic	3
Antimetastatic	5
Antimetastatic (Stomach)	1
Antimigraine	5
Antimite	2
Antimitotic	2
Antimitral-valve-prolapse	1
Antimorphinic	1
Antimorphinistic	1
AntiMS	3

Activity	Chemical Count
Antimutagenic	19
Antimyalgic	1
Antimyocarditic	2
Antinauseant	1
Antineoplastic	1
Antinephritic	1
Antinephrolytic	1
Antinesidioblastosic	1
Antineuralgic	4
Antineuramidase	1
Antineurasthenic	1
Antineuritic	2
Antineuropathic	2
Antineurotic	1
AntiNF-kB	1
Antinitrosaminic	10
Antinitrosating	1
Antinitrosic	1
Antinociceptive	6
Antinyctalopic	1
Antiobesity	6
Antionychyotic	2
Antiophidic	3
Antiophthalmic	2
Antiorchitic	1
Antiosteoarthritic	3
Antiosteoporotic	10

Activity	Chemical Count
Antiosteosclerotic	1
Antiotitic	2
Antiototic	1
Antioxidant	47
Antioxidant (LDL)	1
Antioxidant Synergist	1
Antioxidant?	2
Antiozenic	1
Antipancreatitis	1
Antipapillomic	2
Antiparkinsonian	7
Antiparotitic	1
Antipellagic	3
Antipeptic	2
Antiperiodontal	1
Antiperiodontic	2
Antiperiodontitic	3
Antiperistaltic	1
Antipermeability	1
Antiperoxidant	6
Antipharyngitic	2
Antiphenylketonuric	2
Antiphotophobic	2
Antipityriasis	1
Antiplaque	7
Antiplasmodial	5
AntiPMS	5

Activity	Chemical Count
Antipneumonic	2
Antipodriac	2
Antipolio	4
Antipoliomyelitic	2
Antipolyneuritic	1
Antiporphyric	1
Antiprogestational	1
Antiprolactin	1
Antiproliferant	8
Antiproliferative	1
Antiprostaglandin	12
Antiprostanoid	1
Antiprostataadenomic	1
Antiprostatic	7
Antiprostatotic	1
Antipuritic	2
Antipsoriac	3
Antipsoriatic	2
Antipsychotic	1
Antipyretic	9
Antiradicular	15
AntiRaynaud's	3
Antiretardation	1
Antiretinopathic	1
Antiretinotic	1
Antirheumatalgic	1
Antirheumatic	7

Activity	Chemical Count
Antirheumatic?	1
Antirhinitic	2
Antirhinoviral	4
Antisalmonella	5
Antischistosomic	1
Antisclerodermic	1
Antiscoliotic	1
Antiscorbutic	1
Antiscotomic	1
Antiseborrheic	1
Antiseptic	34
Antiseratogenic	1
Antiserotonin	2
Antishingles	1
Antishock	2
Antisickling	6
Antisilicotic	1
Antisinusitic	1
Antispare-Tire	1
Antispasmodic	32
Antispasmophilic	1
Antisprue	1
Antistaphylococcic	10
Antistomatitic	2
Antistreptococcic	6
Antistress	5
Antistroke	2

Activity	Chemical Count
Antisunburn	2
Antisyndrome-X	6
Antitachycardic	1
Antithiamin	2
Antithrombic	2
Antithrombotic	1
Antithromboxane	4
Antithyreotropic	1
Antithyroid	2
Antititic	1
Antitinnitic	2
AntiTNF	2
AntiTourette's	1
Antitriglyceride	2
Antitrypanosomic	1
Antitubercular	1
Antitumor	23
Antitumor (Bladder)	1
Antitumor (brain)	1
Antitumor (Breast)	5
Antitumor (Cervix)	2
Antitumor (CNS)	1
Antitumor (Colon)	8
Antitumor (Forestomach)	2
Antitumor (Gastric)	1
Antitumor (Liver)	4
Antitumor (Lung)	7

Activity	Chemical Count
Antitumor (Ovary)	1
Antitumor (Pancreas)	2
Antitumor (Prostate)	3
Antitumor (Skin)	6
Antitumor (Stomach)	2
Antitumor-Promoter	9
Antitumor-Promoter?	1
Antitussive	4
Antiulcer	32
Antiulcerogenic	2
Antiuremic	1
Antiuricosuric	1
Antivaccinia	1
Antivaginitic	2
Antivaricose	1
Antivertigo	1
Antiviral	24
Antiviral?	1
Antivertilgic	1
Antixerophthalmic	1
Antiyeast	3
Anxiolytic	8
AP-1-Inhibitor	1
Aphrodisiac	2
Apifuge	1
Apoptotic	11
Aromatase-Inhibitor	1

Activity	Chemical Count
Artemicide	2
Arteriodilator	1
Ascaricide	2
Asthma-preventive	1
Astringent	1
Atherogenic	1
ATPase-Inhibitor	1
Autotoxic	1
Bacteriostatic	1
Bacteristat	3
Barbituate-Synergist	2
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	1
Bradycardiac	1
Bradycardic	1
Bronchoprotectant	1
Bronchorelaxant	2
Bruchifuge	1
Calcium-Antagonist	7
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	2
Cancer-Preventive	47
Candidicide	18
Candidistat	3
Capillariprotective	1

Activity	Chemical Count
Carcinogenic	9
Carcinogenic?	1
Cardiac	1
Cardiodepressant	3
Cardiomyopathogenic	1
Cardioprotective	10
Cardiotonic	7
Cardiotoxic	1
Cardiovascular	1
Carminative	5
Caspase-3-Inducer	1
Caspase-8-Inducer	1
Catabolic	2
Chelator	1
Chemopreventive	9
Cholagogue	8
Choleretic	14
Cholesterolytic	1
Cholinergic	1
Cicatrizant	1
Circulotonic	1
Clastogenic	2
CNS-Active	2
CNS-Depressant	6
CNS-Inhibitor	2
CNS-Paralytic	1
CNS-Stimulant	5

Activity	Chemical Count
CNS-Toxic	1
Co-carcinogenic	1
Cold-preventive	1
Coleoptophile	1
Collagen-Sparing	2
Collagenic	2
Collyrium	1
Colorant	1
Comedolytic	1
COMP-Inhibitor	1
COMT-Inhibitor	1
Contraceptive	2
Convulsant	3
Copper-Antagonist	1
Copper-Chelator	2
Cosmetic	3
Counterirritant	2
COX-1-Inhibitor	3
COX-2-Inhibitor	8
Culicide	1
Cyclooxygenase-Inhibitor	9
Cytochrome-P450-1A2-Inhibitor	1
Cytochrome-P450-Inducer	3
Cytochrome-P450-Inhibitor	3
Cytoprotective	1
Cytotoxic	9
Decongestant	2

Activity	Chemical Count
Degranulant	1
Deiodinase-Inhibitor	1
Deliriant	1
Demulcent	1
Dentifrice	1
Deodorant	3
Depressant	2
Depressor	1
Dermal	1
Dermatitigenic	3
Detoxicant	4
Detoxicant (Alcohol)	1
Diaphoretic	1
Diaphoretic?	3
Differentiator	1
Digestive	1
Diuretic	14
DNA-Active	1
DNA-Protective	2
Dye	1
Ecbolic	1
Edemagenic	1
Embryotoxic	2
Emetic	6
Emmenagogue	1
Emollient	1
Encephalopathic	1

Activity	Chemical Count
Endocrinactive	1
Energizer	1
Enterocontractant	1
Enteromotility-Enhancer	2
Enterorelaxant	1
Epileptigenic	1
Ergogenic	1
Erythrocytogenic	1
Essential	8
Estrogenic	8
Expectorant	13
Fatal	1
Febrifuge	1
Fibrinolytic	2
Fistula-Preventive	1
Flatugenic	2
FLavor	52
Fungicide	43
Fungiphilic	1
Fungistat	3
GABA-nergic	2
Gastroprotective	3
Gastrostimulant	4
Glaucomagenic	1
Glucosyl-Transferase-Inhibitor	1
Glutathionergic	1
Glutathionigenic	4

Activity	Chemical Count
Gonadotrophic	2
Gram(+)icide	1
Gram(-)icide	1
GST-Inducer	1
Hemolytic	1
Hemostat	1
Hemostatic	1
Hepatocarcinogenic	1
Hepatomagenic	1
Hepatoprotective	17
Hepatotonic	1
Hepatotoxic	1
Hepatotropic	2
Herbicide	14
Herbistat	1
Histamine-Inhibitor	2
Histaminic	1
HIV-RT-Inhibitor	2
Hydrocholerectic	1
Hypercholesterolemic	4
Hyperglycemic	2
Hypertensive	3
Hypnotic	3
Hypoammonemic	1
Hypoarginanemic	1
Hypocholesterolemic	19
Hypocholesterolemic?	1

Activity	Chemical Count
Hypoglycemic	10
Hypolipidemic	4
Hypotensive	18
Hypothermic	4
Hypotriglyceridemic	1
Hypouricemic	1
ICAM-1-Inhibitor	1
IkappaB-alpha-Phosphorylation-Inhibitor	1
IKB-kinase-Inhibitor	1
IKK-Inhibitor	1
Ileorelaxant	1
Immunomodulator	8
Immunostimulant	12
Immunosuppressant	4
Inflammatory	1
Inhalant	1
iNOS-Inhibitor	2
Inotropic	3
Insect-Repellent	2
Insecticide	9
Insectifuge	30
Insectifuge?	1
Insectiphile	4
Insulin-Sparing	1
Insulinase-Inhibitor	1
Insulinogenic	4
Insulinotonic	1

Activity	Chemical Count
Interferon-Synergist	1
Interferonogenic	2
Interleukin-6-Inhibitor	2
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	27
Irritant?	1
JNK-Inhibitor	1
Juvabional	5
Keratitogenic	1
Larvicide	5
Larvostat	3
Laxative	7
Leptogenic	1
Leukotriene-Inhibitor	2
Lipase-Inducer	1
Lipolytic	1
Lipotropic	2
Lipoxygenase-Inhibitor	6
Lithogenic	1
Litholytic	2
Lubricant	3
Lyase-Inhibitor	1
Lymphocytogenic	1
Maltase-Promoter	1
MAO-A-Inhibitor	1
MAO-Inhibitor	1
Mast-Cell-Stabilizer	1

Activity	Chemical Count
MDR-Inhibitor	1
Memorigenic	1
Memory-Enhancer	1
Metal-Chelator	4
Metal-Chelator (Copper)	2
Metalloproteinase-Inhibitor	1
Metastatic	1
MMP-9-Inhibitor	2
Molluscicide	3
Monoamine-Precursor	3
Mosquitocide	1
Mosquitofuge	2
Motor-Depressant	6
Motor-Stimulant	2
Mucogenic	3
Mucolytic	2
Mutagenic	9
Mutagenic?	1
Mycobactericide	1
Myorelaxant	7
NADH-Oxidase-Inhibitor	1
Narcotic	3
Natriuretic	1
Nematicide	27
Neoplastic	1
NEP-Inhibitor	1
Neuroexcitant	1

Activity	Chemical Count
Neurogenic	1
Neuroinhibitor	2
Neuroprotective	4
Neurotoxic	5
Neurotransmitter	2
NF-kB-Inhibitor	5
NO-Genic	3
NO-Inhibitor	5
NO-Scavenger	1
NO-Synthase-Inhibitor	1
Occuloirritant	1
Ophthalmic-Antialkali	1
Ornithine-Decarboxylase-Inhibitor	7
Osteogenic	1
Osteolytic	1
Oviposition-Stimulant	1
Ovulant	1
Oxidant	2
Oxidase-Inhibitor	1
Ozone-Scavenger	1
P450-2B1-Inhibitor	6
P450-Inducer	5
P450-Inhibitor	2
PAF-Inhibitor	1
Paralytic	1
Pediculicide	1
Percutaneostimulant	2

Activity	Chemical Count
Perfume	3
Perfumery	43
Peristaltic	1
Pesticide	87
PGE2-Inhibitor	2
Phagocytotic	2
Pheromonal	1
Pheromone	1
Phospholipase-Inhibitor	1
Photosensitizer	1
Phototoxic	1
Phytoalexin	2
Pigment	2
Pituitary-Stimulant	1
Plasmodicide	2
Polyamine-Synthesis-Inhibitor	1
Poultice	1
Preservative	2
Pressor	1
Progesteronigenic	1
Prolactinogenic	1
Proliferant	1
Prooxidant	5
Propecic	5
Prostaglandigenic	4
Prostaglandin-Sparer	1
Prostaglandin-Synthesis-Inhibitor	9

Activity	Chemical Count
Prostatitigenic	1
Protease-Inhibitor	1
Protein-Kinase-C-Inhibitor	3
Protein-Kinase-Inhibitor	1
Proteolytic	1
Protisticide	2
PTK-Inhibitor	2
Pulmonoprotective	1
Pyrogenic	1
Quinone-Reductase-Inducer	4
Radioprotective	1
Renoirritant	1
Renotoxic	1
Repellent	1
Respirainhibitor	1
Respirapalytic	1
Respirasensitizer	1
Respirastimulant	1
Respirotoxic	1
Roborant	1
Rubefacient	3
Schizophrenigenic	1
Secretagogue	3
Sedative	31
Serotoninergic	3
Sialogogue	1
Soap	2

Activity	Chemical Count
Sortase-A-Inhibitor	1
Spasmogenic	5
Spasmolytic	1
Spermicide	3
Spermigenic	2
Sprout-Inhibitor	1
Stimulant	2
Stomachic	2
Sucrase-Promoter	1
Sunscreen	3
Suppository	1
Surfactant	1
Sweetener	3
Sympathomimetic	1
Taenicide	1
Teratogenic	2
Teratologic	2
Termiticide	4
Termitifuge	3
Testosterone-Hydroxylase-Inducer	1
Testosterone-Inducer	1
Testosteronigenic	1
Thermogenic	6
Thymoprotective	1
Thyrotropic	1
TNF-alpha-Inhibitor	2
TNF-Inhibitor	1

Activity	Chemical Count
Topoisomerase-I-Inhibitor	4
Topoisomerase-II-Inhibitor	4
Tranquilizer	5
Transdermal	6
Tremorigenic	1
Trichomonicide	11
Trichomonistat	2
Triglycerigenic	1
Trypanocide	1
Trypsin-Enhancer	2
Tumor-Promoter	2
Tumorigenic	2
Tyrosinase-Inhibitor	6
Tyrosine-Kinase-Inhibitor	2
Ubiquiot	4
Ulcerogenic	4
Uricogenic	1
Uricosuric	3
Urinary-Acidulant	1
Urine-Acidifier	1
Urine-Deodorant	1
Uterorelaxant	1
Uterosedative	1
Uterotrophic	1
Varroacide	2
Vasoconstrictor	1
Vasodilator	14

Activity	Chemical Count
VEGF-Inhibitor	3
Vermifuge	1
Verrucolytic	2
Vibriocide	2
Vulnerary	7
Xanthine-Oxidase-Inhibitor	2