

**Dr. Duke's Phytochemical and Ethnobotanical Database****Biological Activities Found in *Perilla frutescens***

<b>Activity</b>	<b>Chemical Count</b>
11B-HSD-Inhibitor	2
5-Alpha-Reductase-Inhibitor	2
5-Lipoxygenase-Inhibitor	1
ABeta-Inhibitor	1
Acaricide	3
ACE-Inhibitor	2
Acetylcholinergic	1
AChE-Inhibitor	2
Acidulant	1
Adenylate-Cyclase-Inhibitor	1
Aldehyde-Oxidase-Inhibitor	1
Aldose-Reductase-Inhibitor	8
Allelochemic	5
Allelopathic	1
Allergenic	16
Alpha-Glucosidase-Inhibitor	1
Alpha-Reductase-Inhibitor	1
Amphetaminagenic	1

<b>Activity</b>	<b>Chemical Count</b>
Analgesic	9
Androgenic	1
Androgenic?	1
Anemiagenic	1
Anesthetic	3
Angiogenic	1
Angiotensin-Receptor-Blocker	3
Anorexic	1
Antiacetylcholinesterase	5
Antiacne	5
Antiacrodermatitic	1
Antiacrodynic	1
AntiADD	1
Antiadenomic	2
Antiadenoviral	1
Antiaflatoxin	3
AntiAGE	1
Antiaggregant	10
Antiaging	5
Antiakathisic	1

<b>Activity</b>	<b>Chemical Count</b>
Antialcoholic	4
Antiallergenic	1
Antiallergic	9
Antialopecic	3
Antialzheimeran	6
Antialzheimeran?	3
Antiamblyopic	1
Antianaphylactic	5
Antiandrogenic	3
Antianemic	3
Antianginal	2
Antiangiogenic	4
Antianorectic	2
Antianorexic	1
Antianxiety	2
Antiapoptotic	1
Antiarabiflavinotic	1
Antiarrhythmic	5
Antiarteriosclerotic	1
Antiarthritic	10

<b>Activity</b>	<b>Chemical Count</b>
Antiasthmatic	7
Antiatherogenic	2
Antiatherosclerotic	5
Antibacillary	1
Antibackache	1
Antibacterial	23
Antiberiberi	1
AntiBPH	1
Anticancer	7
Anticancer (Breast)	1
Anticancer (Cervix)	2
Anticancer (Lung)	2
Anticancer (Pancreas)	1
Anticanker	3
Anticarcinogenic	3
Anticarcinomic	2
Anticarcinomic (Breast)	1
Anticardiospasmic	1
Anticariogenic	3
Anticarpal-Tunnel	1

<b>Activity</b>	<b>Chemical Count</b>
Anticataract	7
Anticephalagic	2
Anticervicaldysplasic	3
AntiCFS	2
Anticheilitic	2
Antichilblain	1
Anticholinesterase	2
Anticlastogen	1
Anticlimacteric	3
Anticoagulant	1
Anticoeliac	1
Anticold	2
Anticolic	1
Anticolitic	3
Anticollegenase	1
Anticomplementary	4
Anticonvulsant	5
Anticoronary	4
AntiCrohn's	3
AntiCTS	1

<b>Activity</b>	<b>Chemical Count</b>
Anticystitic	1
Antidandruff	1
Antidecubitic	3
Antideliriant	1
Antidementia	4
Antidepressant	9
Antidermatic	1
Antidermatitic	3
Antidiabetic	9
Antidiscotic	1
Antidote (Aluminum)	2
Antidote (Cadmium)	2
Antidote (Lead)	2
Antidote (Paraquat)	1
Antidysgeuzic	1
Antidyskinetic	1
Antidysmenorrheic	1
Antidyspeptic	1
Antidysphagic	1
AntiEBV	1

<b>Activity</b>	<b>Chemical Count</b>
Antieczemic	3
Antiedemic	7
Antielastase	3
Antiencephalitic	2
Antiencephalopathic	2
Antiendometriotic	2
Antienterotic	1
Antiepileptic	4
Antiescherichic	2
Antiesophagitic	1
Antiestrogenic	4
Antifatigue	5
Antifeedant	8
Antifertility	1
Antifibrinolytic	1
Antifibromyalgic	1
Antifibrosarcomic	1
Antifibrotic	2
Antiflu	5
Antifuruncular	1

<b>Activity</b>	<b>Chemical Count</b>
Antigallstone	1
Antigastric	1
Antigastritic	2
Antigastrotic	1
Antigingivitic	1
Antiglaucomic	2
Antigliomic	1
Antiglossitic	1
Antiglutamaergic	1
Antigonadotrophic	1
Antigonadotropic	3
Antigranular	1
AntiGTF	1
Antihangover	4
Antiheartburn	1
Antihelicobacter	2
Antihemolytic	2
Antihemorrhagic	1
Antihepatitic	1
Antihepatoadenomic	1



<b>Activity</b>	<b>Chemical Count</b>
Antihepatotoxic	7
Antiherpetic	9
Antiherpetic?	1
Antihistaminic	11
AntiHIV	6
Antihydrophobic	1
Antihyperactivity	1
Antihypercholesterolemic	1
Antihyperglycemic	1
Antihyperinsulinemic	1
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperleptinemic	1
Antihyperlipoproteinaemic	1
Antihypertensive	6
Antihyperthyroid	2
Antihypoglycemic	1
Antiichthyotic	1
Antiimpotence	2
Antiinfective	1

<b>Activity</b>	<b>Chemical Count</b>
Antiinfertility	2
Antiinflammatory	23
Antiinsomniac	3
Antiinsomnic	1
Antiintegrase	1
Antiischemic	1
Antikeratitic	1
Antiketotic	1
AntiLegionella	2
Antileishmanic	2
Antileptic	2
Antileukemic	7
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	3
Antileukotriene-D4	2
Antilipoperoxidant	3
Antilithic	3
Antilithic?	1
Antilupus	1

<b>Activity</b>	<b>Chemical Count</b>
AntiLyme	5
Antilymphomic	5
Antimaculitic	3
Antimalarial	1
Antimange	1
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanogenic	2
Antimelanomic	5
AntiMeniere's	1
Antimenopausal	4
Antimenorrhagic	2
Antimetastatic	3
Antimetastatic (Stomach)	1
Antimigraine	4
Antimite	1
Antimitral-valve-prolapse	1
AntiMS	2
Antimutagenic	14

<b>Activity</b>	<b>Chemical Count</b>
Antimyocarditic	2
Antimyopic	1
Antinephritic	1
Antinephrolytic	1
Antineuralgic	2
Antineuramidase	1
Antineurasthenic	1
Antineuritic	1
Antineuropathic	2
Antineurotic	1
Antinitrosaminic	4
Antinitrosic	1
Antinociceptive	5
Antinyctalopic	2
Antiobesity	6
Antiophidic	4
Antiorchitic	1
Antiosteoarthritic	1
Antiosteoporotic	7
Antiototic	1

<b>Activity</b>	<b>Chemical Count</b>
Antioxidant	35
Antioxidant (LDL)	1
Antiozenic	1
Antipancreatic	1
Antipapillomic	1
Antiparkinsonian	2
Antiparotitic	1
Antipellagic	2
Antipeptic	1
Antiperiodontal	1
Antiperiodontitic	3
Antiperistaltic	2
Antipermeability	1
Antiperoxidant	3
Antipharyngitic	1
Antiphotophobic	2
Antipityriasic	1
Antiplateau	4
Antiplasmodial	1
AntiPMS	5

<b>Activity</b>	<b>Chemical Count</b>
Antipneumonic	2
Antipodriac	2
Antipolio	2
Antipoliomyelitic	2
Antiporphyrin	1
Antiprogestational	1
Antiprolactin	1
Antiproliferant	9
Antiproliferative	2
Antiprostaglandin	3
Antiprostanoid	1
Antiprostataadenomic	2
Antiprostatic	4
Antiproteolytic	1
Antipsoriac	2
Antipulmonotic	1
Antipyretic	3
Antiradicular	7
AntiRaynaud's	3
Antiretinopathic	1

<b>Activity</b>	<b>Chemical Count</b>
Antiretinotic	1
Antirheumatalgic	1
Antirheumatic	4
Antirhinitic	1
Antiscorbutic	1
Antiscotomic	1
Antiseptic	14
Antiserotonic	1
Antishingles	1
Antishock	3
Antispare-Tire	1
Antispasmodic	19
Antispasmophilic	1
Antistaphylococcic	3
Antistomatitic	2
Antistreptococcic	2
Antistress	7
Antistroke	2
Antisunburn	1
Antisyndrome-X	4

<b>Activity</b>	<b>Chemical Count</b>
Antithiamin	2
Antithrombic	1
Antithyreotropic	1
Antithyroid	3
Antitic	1
Antitinnitic	1
AntiTNF	1
Antitriglyceride	1
Antitrypanosomic	1
Antitumor	14
Antitumor (Bladder)	1
Antitumor (brain)	1
Antitumor (Breast)	6
Antitumor (Cervix)	2
Antitumor (CNS)	1
Antitumor (Colon)	8
Antitumor (Gastric)	1
Antitumor (Kidney)	1
Antitumor (Liver)	1
Antitumor (Lung)	6



<b>Activity</b>	<b>Chemical Count</b>
Antitumor (Mouth)	1
Antitumor (Ovary)	2
Antitumor (Pancreas)	3
Antitumor (Prostate)	3
Antitumor (Skin)	7
Antitumor (Stomach)	3
Antitumor (Thyroid)	1
Antitumor-Promoter	3
Antitussive	3
Antiulcer	7
Antiulcerogenic	1
Antiuremic	1
Antivaccinia	1
Antivaginitic	1
Antivaricose	2
Antivertigo	1
Antiviral	16
Antiviral?	1
Antixerophthalmic	1
Antiyeast	1

<b>Activity</b>	<b>Chemical Count</b>
Anxiolytic	7
Aphidifuge	1
Aphrodisiac	1
Apoptotic	11
Aromatase-Inhibitor	2
Artemicide	2
Asthma-preventive	1
Astringent	1
ATPase-Inhibitor	1
Avifuge	1
Bacteristat	2
Barbituate-Synergist	2
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	3
Bitter	1
Bradycardiac	1
Bronchoprotectant	1
Bronchorelaxant	2
Bruchifuge	1

<b>Activity</b>	<b>Chemical Count</b>
Calcium-Antagonist	9
Calcium-Antagonist?	1
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	1
Cancer-Preventive	28
Candidicide	7
Candidostat	4
Capillariprotective	1
Carcinogenic	8
Cardioprotective	7
Cardiotoxic	1
Carminative	2
Caspase-3-Inducer	1
Caspase-8-Inducer	1
Catabolic	1
Cerebrotoxic	1
Chemopreventive	10
Cholagogue	1
Choleretic	4

<b>Activity</b>	<b>Chemical Count</b>
Cholesterolytic	1
Circulotonic	1
Clastogenic	1
CNS-Active	1
CNS-Depressant	3
CNS-Stimulant	1
Co-carcinogenic	1
Cold-preventive	1
Coleoptophile	1
Collagen-Sparing	1
Collagenic	2
Colorant	1
Comedolytic	1
COMT-Inhibitor	1
Contraceptive	1
Copper-Antagonist	1
Copper-Chelator	1
COX-1-Inhibitor	4
COX-2-Inhibitor	6
Culicide	1

<b>Activity</b>	<b>Chemical Count</b>
Cyanogenic	2
Cyclooxygenase-Inhibitor	2
Cytochrome-P450-1A1-Inhibitor	1
Cytochrome-P450-1A2-Inhibitor	1
Cytochrome-P450-Inducer	1
Cytoprotective	1
Cytotoxic	8
Deiodinase-Inhibitor	4
Deodorant	2
Dermal	1
Dermatitigenic	1
Detoxicant	2
Detoxicant (Alcohol)	1
Diaphoretic?	1
Differentiator	3
Diuretic	9
DNA-Active	1
DNA-Binder	2
DNA-Protective	2
Edematogenic	1

<b>Activity</b>	<b>Chemical Count</b>
Emetic	1
Encephalopathic	1
Enterocontractant	1
Enterostimulant	1
Ergogenic	1
Estrogenic	8
Expectorant	6
Febrifuge	1
Fibrinolytic	1
Fistula-Preventive	1
FLavor	17
Fungicide	16
Fungiphilic	1
Fungistat	3
GABA-nergic	1
Gastroprotective	1
Glaucomagenic	1
Glucosyl-Transferase-Inhibitor	1
Glutathionalytic	1
Glutathione-Depleting	1

<b>Activity</b>	<b>Chemical Count</b>
Glutathionigenic	2
Goitrogenic	1
Gonadotrophic	1
GST-Inducer	1
Hallucinogenic	3
Hemostat	2
Hepatocarcinogenic	2
Hepatomagenic	1
Hepatoprotective	6
Hepatotoxic	4
Hepatotropic	1
Herbicide	7
HIF-1alpha-Inhibitor	1
Histamine-Inhibitor	1
Histaminic	1
HIV-RT-Inhibitor	1
Hyaluronidase-Inhibitor	2
Hyperglycemic	1
Hypertensive	1
Hypnotic	2

<b>Activity</b>	<b>Chemical Count</b>
Hypocholesterolemic	12
Hypocholesterolemic?	1
Hypoglycemic	5
Hypolipidemic	2
Hypotensive	9
Hypothermic	3
Hypouricemic	1
ICAM-1-Inhibitor	2
IKK-Inhibitor	2
Ileorelaxant	1
Immunomodulator	7
Immunostimulant	8
Immunosuppressant	1
iNOS-Inhibitor	3
Inotropic	2
Insecticide	13
Insecticide-Synergist	2
Insectifuge	17
Insectiphile	2
Insulinogenic	3



<b>Activity</b>	<b>Chemical Count</b>
Interferon-Synergist	1
Interferonogenic	1
Interleukin-6-Inhibitor	2
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	8
Juvabional	1
Larvicide	3
Larvostat	1
Laxative	5
Leptingenic	1
Leukotriene-Inhibitor	1
Lipolytic	1
Lipoxygenase-Inhibitor	4
Lithogenic	1
Litholytic	1
Lyase-Inhibitor	1
MAO-A-Inhibitor	1
MAO-Inhibitor	2
MAPK-Inhibitor	2
Mast-Cell-Stabilizer	1

<b>Activity</b>	<b>Chemical Count</b>
Memory-Enhancer	1
Metal-Chelator	1
Metal-Chelator (Copper)	2
Metalloproteinase-Inhibitor	2
Metastatic	1
MMP-9-Inhibitor	2
Molluscicide	1
Mosquitofuge	1
Motor-Depressant	4
Motor-Stimulant	1
Mucogenic	2
Mucolytic	1
Musculotropic	1
Mutagenic	5
Myorelaxant	6
Myostimulant	1
NADH-Oxidase-Inhibitor	2
Narcotic	1
Nematicide	8
NEP-Inhibitor	2

<b>Activity</b>	<b>Chemical Count</b>
Nephrotoxic	2
Neuroprotective	3
Neurotoxic	3
Neurotransmitter	1
NF-kB-Inhibitor	5
NO-Genic	1
NO-Inhibitor	4
NO-Scavenger	1
NO-Synthase-Inhibitor	2
Nodulation-Signal	1
Ornithine-Decarboxylase-Inhibitor	4
Osteogenic	1
Ovulant	1
Oxytocic	1
Ozone-Scavenger	1
P21-Inducer	1
P450-2B1-Inhibitor	3
P450-Inducer	3
P450-Inhibitor	1
Paralytic	1

<b>Activity</b>	<b>Chemical Count</b>
Percutaneostimulant	1
Perfumery	15
Peristaltic	2
Pesticide	39
PGE2-Inhibitor	1
Phagocytotic	2
Pheromone	2
Phospholipase-Inhibitor	1
Photosensitizer	1
Pigment	1
PKC-Inhibitor	1
Plasmodicide	1
Polyamine-Synthesis-Inhibitor	1
Progestational	1
Proliferant	2
Prooxidant	5
Propepic	2
Prostaglandigenic	2
Prostaglandin-Synthesis-Inhibitor	1
Prostaglandin-Synthetase-Inhibitor	1

<b>Activity</b>	<b>Chemical Count</b>
Prostatitigenic	1
Protein-Kinase-C-Inhibitor	3
Psychoactive	1
PTK-Inhibitor	3
Pulifuge	1
Pulmonotoxic	1
Quinone-Reductase-Inducer	2
Radioprotective	2
Schistosomicide	1
Schizophrenigenic	1
Secretagogue	1
Sedative	16
Serotonergic	2
Spasmogenic	3
Spasmolytic	1
Spermicide	1
Spermigenic	1
Succinoxidase-Inhibitor	1
Sunscreen	2
Tachycardic	1

<b>Activity</b>	<b>Chemical Count</b>
Teratogenic	1
Teratologic	1
Termiticide	1
Termitifuge	1
Testosterone-Inducer	1
Testosteronigenic	1
Thymoprotective	1
TNF-alpha-Inhibitor	3
Topoisomerase-I-Inhibitor	3
Topoisomerase-II-Inhibitor	2
Toxic	1
Tranquilizer	3
Transdermal	4
Trichomonicide	5
Trichomonistat	1
Trypanocide	1
Tumor-Promoter	1
Tumorigenic	2
Tyrosinase-Inhibitor	4
Tyrosine-Kinase-Inhibitor	1

<b>Activity</b>	<b>Chemical Count</b>
Ubiquiot	3
Ulcerogenic	1
Uricosuric	1
Urinary-Acidulant	1
Uterorelaxant	1
Uterotonic	1
Uterotrophic	1
Vasoactive	1
Vasodilator	10
Vasoprotective	1
VEGF-Inhibitor	3
Vermicide	1
Vibriocide	1
Vulnerary	3
Xanthine-Oxidase-Inhibitor	4