

**Dr. Duke's Phytochemical and Ethnobotanical Database****Biological Activities Found in Ligustrum japonicum**

<b>Activity</b>	<b>Chemical Count</b>
11B-HSD-Inhibitor	2
5-Alpha-Reductase-Inhibitor	4
5-Lipoxygenase-Inhibitor	2
Abortifacient	1
Acaricide	1
ACE-Inhibitor	3
Acetylcholinergic	1
Adaptogenic	1
Aldehyde-Oxidase-Inhibitor	1
Aldose-Reductase-Inhibitor	4
Allelochemic	3
Allelopathic	2
Allergenic	8
Alpha-Reductase-Inhibitor	1
Analgesic	10
Anemiagenic	1
Anesthetic	6
Angiotensin-Receptor-Blocker	1

<b>Activity</b>	<b>Chemical Count</b>
Anorexic	1
Anthelmintic	1
Antiacne	2
Antiacrodermatitic	1
Antiadenoviral	1
Antiaflatoxin	2
Antiaggregant	6
Antiaging	2
Antiakathisic	1
Antialcoholic	4
Antiallergic	5
Antiallopecic	4
Antialzheimeran	3
Antianaphylactic	2
Antiandrogenic	3
Antianemic	3
Antianginal	1
Antiangiogenic	3
Antianorectic	1
Antianorexic	1

<b>Activity</b>	<b>Chemical Count</b>
Antianxiety	2
Antiarachidonate	1
Antiarrhythmic	7
Antiartherosclerotic	1
Antiarthritic	8
Antiasthmatic	2
Antiatherogenic	1
Antiatherosclerotic	4
Antibacterial	13
AntiBPH	1
Anticancer	4
Anticancer (Colon)	2
Anticancer (Forestomach)	1
Anticancer (Liver)	1
Anticancer (Skin)	1
Anticanker	2
Anticarcinogenic	2
Anticarcinomic	2
Anticarcinomic (Breast)	1
Anticariogenic	3

<b>Activity</b>	<b>Chemical Count</b>
Anticataract	2
Anticephalagic	1
AntiCFS	1
Anticheilitic	1
Anticholestastic	1
Anticlastogen	1
Anticlimacteric	2
Anticoeliac	1
Anticold	1
Anticolitic	2
Anticomplement	2
Anticomplementary	2
Anticonvulsant	2
Anticoronary	3
AntiCrohn's	2
Anticystitic	1
Antidandruff	1
Antidementia	1
Antidepressant	5
Antidermatitic	2

<b>Activity</b>	<b>Chemical Count</b>
Antidiabetic	7
Antidiscotic	1
Antidote (Aluminum)	1
Antidote (Cadmium)	1
Antidote (Lead)	1
Antidysgeuzic	1
Antidyskinetic	1
Antidysmenorrhic	2
AntiEBV	2
Antieczemic	3
Antiedemic	8
Antielastase	2
Antiencephalitic	1
Antiencephalopathic	1
Antiendometriotic	1
Antienterotic	1
Antiepileptic	3
Antiescherichic	3
Antiesophagitic	1
Antiestrogenic	3

<b>Activity</b>	<b>Chemical Count</b>
Antifatigue	3
Antifeedant	2
Antifertility	3
Antifibrinolytic	2
Antifibromyalgic	1
Antifibrosarcomic	2
Antifibrotic	1
Antiflu	3
Antifuruncular	1
Antigastric	1
Antigastrotic	1
Antigenotoxic	1
Antigingivitic	2
Antiglaucomic	2
Antigonadotropic	2
Antigranular	1
AntiGTF	1
Antihangover	2
Antihemolytic	1
Antihemorrhoidal	1

<b>Activity</b>	<b>Chemical Count</b>
Antihepatoadenomic	1
Antihepatotoxic	7
Antiherpetic	5
Antiherpetic?	1
Antihistaminic	5
AntiHIV	5
Antihydrocoele	1
Antihydrophobic	1
Antihypercholesterolemic	1
Antihyperglycemic	1
Antihyperkinetic	2
Antihyperlipidemic	2
Antihypertensive	5
Antihyperthyroid	1
Antihypoglycemic	1
Antiimplantation	1
Antiimpotence	1
Antiincontinence	1
Antiinfective	1
Antiinfertility	1

<b>Activity</b>	<b>Chemical Count</b>
Antiinflammatory	16
Antiinsomniac	3
Antiischemic	1
Antikeratotic	1
Antiketotic	2
AntiLegionella	1
Antileishmanic	2
Antileptic	1
Antileukemic	7
Antileukonychic	1
Antileukotriene	3
Antileukotriene-D4	2
Antilipoperoxidant	1
Antilithic	2
AntiLyme	1
Antilymphocytic	1
Antilymphomic	2
Antimaculitic	1
Antimalarial	4
Antimastalgic	1



<b>Activity</b>	<b>Chemical Count</b>
Antimelanogenic	1
Antimelanomic	1
Antimenopausal	2
Antimenorrhagic	2
Antimetastatic	3
Antimigraine	1
Antimitotic	2
Antimitral-valve-prolapse	1
AntiMS	3
Antimutagenic	11
Antimyocarditic	1
Antinauseant	1
Antineoplastic	1
Antinephritic	3
Antinephrolytic	1
Antineuropathic	1
Antineurotic	1
Antinitrosaminic	4
Antinitrosating	1
Antinociceptive	4

<b>Activity</b>	<b>Chemical Count</b>
Antinyctalopic	1
Antiobesity	2
Antiobesity?	1
Antiodontalgic	1
Antionychogryphotic	1
Antiophidic	1
Antiosteoporotic	5
Antiotitic	2
Antiototic	1
Antioxalate	1
Antioxidant	15
Antipancreatic	1
Antipeptic	1
Antiperiodontal	1
Antiperiodontic	2
Antiperiodontitic	2
Antiperistaltic	1
Antipermeability	1
Antiperoxidant	6
AntiPGE2	1

<b>Activity</b>	<b>Chemical Count</b>
Antipharyngitic	1
Antiplateau	5
Antiplasmodial	3
AntiPMS	4
Antipodriac	1
Antipolio	1
Antiprolactin	1
Antiproliferant	2
Antiproliferative	1
Antiprostaglandin	3
Antiprostanoid	1
Antiprostatic	4
Antipruritic	1
Antipsoriac	1
Antipyretic	4
Antipyruvetic	1
Antiradicular	6
AntiRaynaud's	1
Antiretinopathic	1
AntiReye's	1

<b>Activity</b>	<b>Chemical Count</b>
Antirheumatic	3
Antisalmonella	2
Antisarcomic	1
Antiseptic	15
Antiserotonin	2
Antisinusitic	1
Antispare-Tire	1
Antispasmodic	11
Antispasmophilic	1
Antispastic	1
Antistaphylococcic	4
Antistomatitic	2
Antistreptococcic	1
Antistress	3
Antistroke	2
Antisunburn	1
Antisyndrome-X	3
AntiTGF-beta	2
Antithiamin	2
Antithrombic	2

<b>Activity</b>	<b>Chemical Count</b>
Antithromboxane	2
Antithyroid	1
Antitic	1
Antitinnitic	1
AntiTNF	1
Antitriglyceride	1
Antitrypanosomic	2
Antituberculic	1
Antitumor	11
Antitumor (Bladder)	1
Antitumor (brain)	1
Antitumor (Breast)	3
Antitumor (Cervix)	1
Antitumor (Colon)	4
Antitumor (Forestomach)	1
Antitumor (Kidney)	1
Antitumor (Liver)	1
Antitumor (Lung)	3
Antitumor (Ovary)	2
Antitumor (Pancreas)	1

<b>Activity</b>	<b>Chemical Count</b>
Antitumor (Skin)	3
Antitumor (Stomach)	1
Antitumor-Promoter	5
Antiulcer	8
Antiulcerogenic	1
Antiurethrotic	1
Antivaccinia	1
Antivaricose	1
Antiviral	9
Antiviral?	1
Antiwrinkle	1
Antiyeast	1
Anxiolytic	4
Apifuge	1
Apoptotic	2
Aromatase-Inhibitor	3
Arteriodilator	1
Astringent	1
ATPase-Inhibitor	1
Bacteristat	3

<b>Activity</b>	<b>Chemical Count</b>
Beta-Blocker	3
Beta-Glucuronidase-Inhibitor	2
Bradycardiac	1
Calcium-Antagonist	3
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	2
Cancer-Preventive	13
Candidicide	5
Capillariprotective	1
Carcinogenic	5
Carcinogenic?	1
Cardiac	1
Cardiodepressant	1
Cardioprotective	5
Cardiotonic	3
Cardiotoxic	1
Carminative	1
Catabolic	1
Chemopreventive	2

<b>Activity</b>	<b>Chemical Count</b>
Cholagogue	2
Choleretic	8
Clastogenic	1
CNS-Active	1
CNS-Depressant	4
Co-carcinogenic	1
Collagen-Sparing	1
Collagenic	1
Comedolytic	1
COMT-Inhibitor	1
Contraceptive	1
Copper-Antagonist	1
Copper-Chelator	2
Coronary-Dilator	1
Cosmetic	2
COX-1-Inhibitor	1
COX-2-Inhibitor	6
Cyclooxygenase-Inhibitor	4
Cytochrome-P450-1A2-Inhibitor	1
Cytochrome-P450-Inhibitor	1



<b>Activity</b>	<b>Chemical Count</b>
Cytoprotective	1
Cytotoxic	8
Deiodinase-Inhibitor	1
Deodorant	1
Dermal	1
Dermatitigenic	2
Detoxicant (Alcohol)	1
Diaphoretic?	3
Differentiator	1
Diuretic	9
DNA-Active	1
DNA-Protective	1
Elastase-Inhibitor	2
Emetic	3
Enterorelaxant	1
Ergogenic	1
Estrogenic	2
Expectorant	2
Flatugenic	1
FLavor	11

<b>Activity</b>	<b>Chemical Count</b>
FPTase-Inhibitor	1
Fumigant	1
Fungicide	9
Gastroprotective	2
Glucosyl-Transferase-Inhibitor	1
Hemolytic	3
Hemostat	1
Hepatocarcinogenic	1
Hepatomagenic	1
Hepatoprotective	10
Hepatotropic	2
Herbicide	2
Histamine-Inhibitor	1
HIV-RT-Inhibitor	2
Hydrocholerectic	1
Hypercholesterolemic	1
Hyperglycemic	1
Hypertensive	1
Hypocholesterolemic	6
Hypoglycemic	3

<b>Activity</b>	<b>Chemical Count</b>
Hypolipemic	1
Hypolipidemic	1
Hypotensive	9
ICAM-1-Inhibitor	1
Immunomodulator	7
Immunostimulant	5
Immunosuppressant	1
iNOS-Inhibitor	2
Inotropic	2
Insecticide	2
Insectifuge	9
Insulinogenic	3
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	4
JNK-Inhibitor	1
Juvabional	2
Larvicide	2
Larvostat	1
Laxative	4
Leptingenic	1

<b>Activity</b>	<b>Chemical Count</b>
Leucocytogenic	2
Leukotriene-Inhibitor	1
Lipoxygenase-Inhibitor	5
Litholytic	1
Lubricant	2
Lyase-Inhibitor	1
MAO-A-Inhibitor	1
MAO-Inhibitor	1
Mast-Cell-Stabilizer	1
Memory-Enhancer	1
Metal-Chelator	2
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	1
Metastatic	1
MMP-9-Inhibitor	2
Mosquitocide	1
Motor-Depressant	2
Mucogenic	1
Mutagenic	2
Myorelaxant	1

<b>Activity</b>	<b>Chemical Count</b>
NADH-Oxidase-Inhibitor	1
Narcotic	1
Natriuretic	1
Nematicide	4
Neoplastic	1
NEP-Inhibitor	1
Nephrotoxic	1
Neuroprotective	2
Neurotoxic	1
Neurotransmitter	1
Neurotropic	1
NF-kB-Inhibitor	3
NO-Inhibitor	2
NO-Synthase-Inhibitor	1
Ornithine-Decarboxylase-Inhibitor	4
P450-Inducer	1
P450-Inhibitor	1
PAF-Inhibitor	1
Parasiticide	2
Percutaneostimulant	1

<b>Activity</b>	<b>Chemical Count</b>
Perfumery	6
Pesticide	22
PGE2-Inhibitor	1
Phagocytotic	2
Phospholipase-Inhibitor	1
Phytoalexin	1
Piscicide	2
Plasmodicide	1
Potassium-Sparing	1
Preservative	1
Proliferant	1
Prooxidant	2
Propepic	4
Prostaglandigenic	3
Prostaglandin-Synthesis-Inhibitor	6
Protease-Inhibitor	1
Protein-Kinase-C-Inhibitor	1
Protisticide	2
PTK-Inhibitor	1
Purgative	1

<b>Activity</b>	<b>Chemical Count</b>
Quinone-Reductase-Inducer	3
Rodenticide	4
Schizophrenigenic	1
Sedative	6
Soap	1
Sodium-Sparing	1
Spermigenic	1
Sunscreen	2
Suppository	1
Sweetener	2
Teratologic	2
Termiticide	2
Testosteronigenic	1
TNF-alpha-Inhibitor	2
Tonic	1
TOPO-2-Inhibitor	2
Topoisomerase-I-Inhibitor	2
Topoisomerase-II-Inhibitor	2
Tranquilizer	2
Transdermal	1

<b>Activity</b>	<b>Chemical Count</b>
Trichomonocide	2
Trichomonostat	1
Trypanocide	1
Trypsin-Enhancer	1
Tumorigenic	2
Tyrosinase-Inhibitor	5
Tyrosine-Kinase-Inhibitor	1
Ulcerogenic	1
Uricosuric	1
Uterorelaxant	1
Uterosedative	1
Uterotonic	1
Uterotrophic	1
Varroacide	1
Vasodilator	8
Vasopressor	2
VEGF-Inhibitor	1
Vermifuge	1
Vulnerary	3
Xanthine-Oxidase-Inhibitor	2