

Dr. Duke's Phytochemical and Ethnobotanical Database**Biological Activities Found in Piper betel**

Activity	Chemical Count
Absorbent	1
Acaricide	2
Acetylcholinergic	1
Acidulant	1
Aggregant	1
Aldose-Reductase-Inhibitor	2
Allergenic	5
Analeptic	1
Analgesic	5
Androgenic?	1
Anesthetic	2
Angiotensin-Receptor-Blocker	2
Anthelmintic	3
Antiacetylcholinesterase	1
Antiacne	2
Antiacrodynic	1
AntiAGE	1
Antiaggregant	3

Activity	Chemical Count
Antiaging	2
Antiakathisic	1
Antialcoholic	1
Antiallergic	3
Antialzheimeran	4
Antialzheimeran?	1
Antiamblyopic	1
Antianemic	1
Antianginal	1
Antianorectic	1
Antianxiety	1
Antiarabiflavinotic	1
Antiarachidonate	1
Antiarrhythmic	1
Antiarthritic	3
Antiasthmatic	3
Antiatherosclerotic	3
Antibacillary	1
Antibackache	1
Antibacterial	6

Activity	Chemical Count
Antiberiberi	1
Anticancer	2
Anticanker	2
Anticarcinomic	1
Anticardiospasmic	1
Anticariogenic	2
Anticarpal-Tunnel	1
Anticataract	4
Anticephalagic	2
Anticerebrotic	1
Anticervicaldysplasic	3
AntiCFS	1
Anticheilitic	2
Antichilblain	1
Anticholesteremic	1
Anticholinesterase?	1
Antichoreic	1
Anticlimacteric	2
Anticold	1
Anticolitic	1

Activity	Chemical Count
Anticonvulsant	3
Anticoronary	1
AntiCrohn's	1
AntiCTS	1
Antidecubitic	3
Antideliriant	1
Antidementia	3
Antidepressant	2
Antidermatitic	2
Antidiabetic	3
Antidiarrheic	1
Antidiuretic	1
Antidote (Aluminum)	2
Antidote (Ammonia)	1
Antidote (Cadmium)	1
Antidote (Iodine)	1
Antidote (Lead)	2
Antidote (Paraquat)	1
Antidysenteric	1
Antidyspeptic	1

Activity	Chemical Count
Antidysphagic	1
Antieczemic	1
Antiedemic	4
Antiencephalitic	1
Antiencephalopathic	2
Antiendometriotic	1
Antiepileptic	1
Antiestrogenic	1
Antifatigue	2
Antifeedant	3
Antifibrotic	1
Antiflu	1
Antigallstone	1
Antigastritic	2
Antigenotoxic	1
Antigingivitic	1
Antiglaucomic	2
Antiglossitic	1
Antihangover	3
Antiheartburn	1

Activity	Chemical Count
Antihemorrhagic	1
Antihepatitic	1
Antihepatotoxic	3
Antiherpetic	3
Antihiccup	1
Antihistaminic	2
AntiHIV	1
Antihyperactivity	1
Antihyperkeratotic	1
Antihyperkinetic	1
Antihypertensive	5
Antiichthyotic	1
Antiinfertility	1
Antiinflammatory	4
Antiinsomniac	2
Antiinsomnic	1
Antikeratitic	1
Antikeratotic	1
Antiketotic	1
Antileishmanic	1

Activity	Chemical Count
Antileptic	1
Antilethargic	1
Antileukoplakic	1
Antilipolytic	1
Antilipoperoxidant	1
Antilithic	1
Antilupus	1
AntiLyme	4
Antimaculitic	2
Antimastitic	1
Antimeasles	1
Antimelanomic	1
AntiMeniere's	1
Antimenopausal	2
Antimenorrhagic	1
Antimigraine	3
Antimitotic	1
Antimutagenic	5
Antimyocarditic	1
Antinephritic	1

Activity	Chemical Count
Antinesidioblastic	1
Antineuralgic	2
Antineuramidase	1
Antineurasthenic	1
Antineuritic	1
Antineuropathic	1
Antinitrosating	2
Antinitrosic	1
Antiobesity	3
Antionychyotic	1
Antiophidic	1
Antiophthalmic	1
Antiorchitic	1
Antiosteoarthritic	1
Antiosteoporotic	3
Antioxidant	9
Antioxidant (LDL)	1
Antiozenic	1
Antipapillomic	1
Antiparkinsonian	2

Activity	Chemical Count
Antiparotitic	1
Antipellagic	2
Antiperiodontitic	2
Antiphotophobic	2
Antipityriasic	1
Antiplateau	1
AntiPMS	2
Antipneumonic	1
Antipodriac	1
Antipoliomyelitic	2
Antiporphyrin	1
Antiproliferant	2
Antiprostaglandin	2
Antipsoriac	1
Antipyretic	2
Antiradicular	5
AntiRaynaud's	2
Antirenitic	1
Antiretinotic	1
Antirheumatologic	1

Activity	Chemical Count
Antirheumatic	3
Antirhinitic	1
Antisalmonella	1
Antiscorbutic	1
Antiscotomic	1
Antiseptic	4
Antishingles	1
Antisickling	1
Antisnoring	1
Antispasmodic	5
Antistaphylococcic	3
Antistreptococcic	2
Antistress	4
Antisyndrome-X	1
Antithromboxane	1
Antitic	1
Antitinnitic	1
AntiTNF	1
Antitumor	5
Antitumor (Breast)	1

Activity	Chemical Count
Antitumor (CNS)	1
Antitumor (Colon)	1
Antitumor (Gastric)	1
Antitumor (Lung)	2
Antitumor (Prostate)	1
Antitumor (Stomach)	1
Antitumor-Promoter	1
Antitussive	1
Antiulcer	6
Antivaricose	1
Antivertigo	1
Antiviral	4
Antixerophthalmic	1
Anxiolytic	3
Apifuge	1
Apoptotic	1
Ascaricide	1
Asthma-preventive	1
Atherogenic	1
Beta-Adrenergic Receptor Blocker	1

Activity	Chemical Count
Beta-Blocker	1
Beta-Glucuronidase-Inhibitor	1
Bronchoconstrictor	1
Calcium-Antagonist	3
Calcium-Channel-Blocker	1
Cancer-Preventive	9
Candidicide	3
Carcinogenic	4
Carcinogenic?	1
Cardioprotective	3
Cardiovascular	1
Carminative	2
Cathartic	1
Cerebrostimulant	1
Chelator	1
Chemopreventive	1
Choleretic	1
Cholinergic	1
Circulotonic	1
CNS-Depressant	3

Activity	Chemical Count
CNS-Inhibitor	1
CNS-Paralytic	1
CNS-Stimulant	1
Cold-preventive	1
Collagenic	1
Collyrium	1
Colorant	1
COX-1-Inhibitor	2
COX-2-Inhibitor	2
Cyclooxygenase-Inhibitor	2
Cytochrome-P450-Inhibitor	1
Cytotoxic	1
Demulcent	1
Dermatitigenic	1
Detoxicant	1
Diuretic	6
DNA-Binder	2
Emollient	1
Enterorelaxant	2
Expectorant	1

Activity	Chemical Count
Fatal	1
Fibrinolytic	1
Fistula-Preventive	1
Flatugenic	1
FLavor	6
Fungicide	6
Gastroprotective	2
Glucosyl-Transferase-Inhibitor	1
Hemostatic	1
Hepatocarcinogenic	1
Hepatoprotective	3
Hepatotoxic	1
Herbicide	2
Hypercholesterolemic	1
Hyperglycemic	1
Hypoammonemic	1
Hypoarginanemic	1
Hypocholesterolemic	4
Hypoglycemic	2
Hypolipidemic	1

Activity	Chemical Count
Hypotensive	4
Hypothermic	2
Hypouricemic	1
Immunomodulator	1
Immunostimulant	3
Immunosuppressant	1
Insecticide	2
Insectifuge	6
Interferon-Synergist	1
Interferonogenic	1
Irritant	5
Juvabional	1
Larvicide	2
Laxative	3
Lipoxygenase-Inhibitor	1
Lithogenic	1
MAO-Inhibitor	1
Memory-Enhancer	1
Mitotic	1
Mosquitocide	1

Activity	Chemical Count
Motor-Depressant	1
Mucogenic	1
Mucolytic	1
Mutagenic	1
Myorelaxant	1
Nematicide	3
Neuroinhibitor	1
Neuroprotective	1
Neurotoxic	2
Neurotransmitter	1
Ornithine-Decarboxylase-Inhibitor	1
Osteogenic	1
Parasympathomimetic	1
Perfumery	4
Peristaltic	1
Pesticide	11
Phagocytotic	1
Poultice	1
Preservative	1
Prooxidant	2

Activity	Chemical Count
Prostaglandin-Inhibitor	1
Prostaglandin-Synthesis-Inhibitor	1
Psychotropic	1
Purgative	1
Renotoxic	1
Ruminatoric	1
Sedative	6
Serotoninerpic	1
Sialogogue	1
Spasmogenic	1
Sweetener	1
Taenicide	1
Termiticide	1
Termitifuge	1
Thymoprotective	1
Tracheorelaxant	1
Tranquilizer	2
Trichomonicide	3
Trichomonistat	1
Triglycerigenic	1

Activity	Chemical Count
Trypsin-Enhancer	1
Ubiquiot	1
Ulcerogenic	1
Uricogenic	1
Uricosuric	1
Urinary-Acidulant	1
Varroacide	2
Vasodilator	5
Vermicide	1
Vermifuge	2
Vulnerary	2
Xanthine-Oxidase-Inhibitor	1