

Dr. Duke's Phytochemical and Ethnobotanical Database**Biological Activities Found in *Vaccinium vitis-idaea***

Activity	Chemical Count
11B-HSD-Inhibitor	2
5-Lipoxygenase-Inhibitor	3
Acarifuge	1
ACE-Inhibitor	5
Acetylcholinergic	1
Acidulant	1
Aggregant	1
Aldehyde-Oxidase-Inhibitor	1
Aldose-Reductase-Inhibitor	8
Allelochemic	5
Allergenic	6
Alpha-Amylase-Inhibitor	1
Amphiglycemic?	1
Anabolic	1
Analgesic	9
Androgenic	1
Androgenic?	1
Anesthetic	1

Activity	Chemical Count
Angiotensin-Receptor-Blocker	2
Anorexic	2
Anthelmintic	1
Antiacne	5
Antiacrodermatitic	1
Antiadenoviral	1
Antiadenovirus	1
Antiaflatoxin	2
AntiAGE	2
Antiaggregant	9
Antiaging	6
Antiakathisic	1
Antialcoholic	4
Antiallergenic	1
Antiallergic	4
Antialopepic	1
Antialzheimeran	4
Antianaphylactic	4
Antianemic	3
Antianginal	1

Activity	Chemical Count
Antiangiogenic	4
Antianorectic	1
Antianorexic	1
Antianxiety	2
Antiaphthic	1
Antiarrhythmic	4
Antiarteriosclerotic	1
Antiarthritic	12
Antiasthmatic	6
Antiatherogenic	1
Antiatheromic	1
Antiatherosclerotic	8
Antibacterial	18
Antibiotic	1
AntiBPH	1
Antibronchitic	1
Anticalculic	1
Anticancer	8
Anticancer (Bladder)	1
Anticancer (Breast)	2

Activity	Chemical Count
Anticancer (Cervix)	1
Anticancer (Colon)	1
Anticancer (Esophagus)?	1
Anticancer (Prostate)	1
Anticanker	2
Anticapillary-Fragility	1
Anticarcinogenic	1
Anticarcinomic	3
Anticarcinomic (Breast)	1
Anticariogenic	3
Anticataract	4
Anticephalagic	1
Anticervicaldysplasic	2
AntiCFS	3
Anticheilitic	1
Anticholestatic	1
Anticirrhotic	1
Anticlimacteric	4
Anticoagulant	2
Anticoeliac	1

Activity	Chemical Count
Anticold	2
Anticolitic	2
Anticomplement	1
Anticomplementary	3
Anticonvulsant	1
Anticorneotic	1
Anticoronary	4
AntiCrohn's	3
AntiCTS	1
Anticystitic	1
Antidandruff	4
Antidecubitic	1
Antidementia	2
Antidepressant	7
Antidermatitic	2
Antidermatotic	1
Antidiabetic	12
Antidiarrheic	2
Antidiscotic	1
Antidote (Aluminum)	2

Activity	Chemical Count
Antidote (Cadmium)	2
Antidote (Lead)	3
Antidote (Mercury)	1
Antidote (Paraquat)	1
Antidysenteric	1
Antidysgeuzic	1
Antidyskinetic	1
Antidysmenorrhic	1
AntiEBV	3
Antieczemic	3
Antiedemic	5
Antielastase	4
Antiencephalitic	2
Antiencephalopathic	1
Antiendometriotic	2
Antienteritic	1
Antienterotic	1
Antiepileptic	3
Antiescherichic	4
Antiestrogenic	1

Activity	Chemical Count
Antifatigue	5
Antifeedant	3
Antifertility	1
Antifibrinolytic	1
Antifibromyalgic	2
Antifibrosarcomic	2
Antifibrotic	3
Antiflu	4
Antifuruncular	1
Antigallstone	2
Antigastric	1
Antigastritic	2
Antigastrotic	1
Antigingivitic	2
Antiglaucomic	2
Antiglycosuric	1
Antigonadotropic	2
Antigout	1
Antigrey	1
AntiGTF	1

Activity	Chemical Count
Antihangover	3
Antihemolytic	1
Antihemorrhagic	1
Antihepatitic	3
Antihepatoadenomic	1
Antihepatomic	1
Antihepatotoxic	8
Antiherpetic	5
Antiherpetic?	1
Antihiccup	1
Antihistaminic	5
AntiHIV	10
Antihydrophobic	1
Antihypercholesterolemic	1
Antihyperglycemic	2
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperlipidemic	1
Antihypertensive	6
Antihyperthyroid	1

Activity	Chemical Count
Antihypoglycemic	1
Antiichthyosic	1
Antiichthyotic	1
Antiimplantation	1
Antiimpotence	1
Antiinfective	1
Antiinfertility	2
Antiinflammatory	14
Antiinsomniac	3
Antiischemic	1
Antikeshan	1
Antiketotic	2
AntiLegionella	1
Antileishmanic	4
Antileptic	2
Antileukemic	7
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	4
Antilipolytic	1

Activity	Chemical Count
Antilipoperoxidant	4
Antilithic	4
Antilupus	1
AntiLyme	2
Antilymphocytic	1
Antilymphomic	2
Antimaculitic	4
Antimalarial	3
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanogenic	2
Antimelanomic	3
Antimelasmic	1
Antimenopausal	4
Antimenorrhagic	2
Antimetastatic	5
Antimigraine	2
Antimitotic	1
Antimitral-valve-prolapse	1

Activity	Chemical Count
AntiMRSA	1
AntiMS	1
Antimutagenic	14
Antimyalgic	1
Antimyocarditic	1
Antinauseant	1
Antinephritic	3
Antinephrolytic	1
Antineuralgic	1
Antineuramidase	1
Antineuropathic	1
Antineurotic	1
AntiNF-kB	1
Antinitrosaminic	3
Antinitrosic	1
Antinociceptive	4
Antinyctalopic	1
Antiobesity	5
Antiobesity?	1
Antioncychomycotic	1

Activity	Chemical Count
Antionychyotic	1
Antiophidic	2
Antiophthalmic	1
Antiorchitic	1
Antiosteoarthritic	4
Antiosteoporotic	9
Antiotitic	1
Antiototic	1
Antioxidant	19
Antioxidant Synergist	2
Antiozenic	1
Antipancreatitic	1
Antipapillomic	1
Antiparkinsonian	2
Antiparotitic	1
Antiperiodic	1
Antiperiodontal	1
Antiperiodontic	1
Antiperiodontitic	4
Antiperistaltic	1

Activity	Chemical Count
Antipermeability	1
Antiperoxidant	7
Antipertussive	1
Antipharyngitic	1
Antiphotophobic	1
Antipityriasic	1
Antiplate	4
Antiplasmodial	2
AntiPMS	5
Antipneumonic	1
Antipodagric	1
Antipodriac	2
Antipolio	2
Antipoliomyelitic	1
Antiporphyrin	1
Antiprolactin	1
Antiproliferant	4
Antiproliferative	1
Antiprostaglandin	2
Antiprostanoid	1

Activity	Chemical Count
Antiprostatic	3
Antiproteolytic	1
Antipsoriac	3
Antipyretic	3
Antiradicular	12
AntiRaynaud's	2
Antirenitic	1
Antiretinopathic	1
Antiretinotic	1
Antirheumatic	6
Antirhinitic	1
Antisalmonella	1
Antiscorbutic	1
Antiseborrheic	4
Antiseptic	12
Antiserotonin	1
Antishingles	1
Antisilicotic	1
Antispasmodic	6

Activity	Chemical Count
Antispasmophilic	1
Antistaphylococcic	4
Antistomatitic	2
Antistreptococcic	2
Antistress	4
Antistroke	2
Antisunburn	1
Antisyndrome-X	6
AntiTGF-beta	1
Antithiamin	2
Antithrombic	1
Antithromboxane	1
Antithyreotropic	1
Antithyroid	1
Antitic	1
Antitinnitic	1
Antitriglyceride	2
Antitrypanosomic	3
Antitubercular	2
Antitumor	14

Activity	Chemical Count
Antitumor (Bladder)	2
Antitumor (brain)	2
Antitumor (Breast)	6
Antitumor (Cervix)	2
Antitumor (CNS)	1
Antitumor (Colon)	4
Antitumor (Esophagus)?	1
Antitumor (Gastric)	1
Antitumor (Lung)	5
Antitumor (Ovary)	2
Antitumor (Prostate)	4
Antitumor (Skin)	2
Antitumor (Stomach)	2
Antitumor-Promoter	7
Antitussive	3
Antitympanic	1
Antiulcer	9
Antiulcerogenic	2
Antivaccinia	1
Antivaginitic	1

Activity	Chemical Count
Antivaricose	1
Antiviral	10
Antiviral?	1
Antiwrinkle	1
Antixerophthalmic	1
Antiyeast	1
Anxiolytic	6
AP-1-Inhibitor	1
Apoptotic	5
Aromatase-Inhibitor	2
Artemicide	1
Asthma-preventive	1
Astringent	3
Atherogenic	1
ATPase-Inhibitor	1
Bacteristat	3
Beta-Adrenergic Receptor Blocker	3
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	2
Bradycardiac	1

Activity	Chemical Count
Bronchodilator	1
Bruchiphobe	1
Calcium-Antagonist	4
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Inhibitor	1
cAMP-Phosphodiesterase-Inhibitor	3
Cancer-Preventive	17
Candidicide	5
Capillarifortificant	1
Capillarigenic	2
Capillariprotective	1
Carcinogenic	6
Cardiomyopathogenic	1
Cardioprotective	8
Cardiotonic	4
Cardiotoxic	1
Catabolic	1
Chelator	1
Chemopreventive	3

Activity	Chemical Count
Cholagogue	1
Choleretic	5
Choline-Sparing	2
Clastogenic	1
CNS-Active	1
CNS-Depressant	2
CNS-Stimulant	1
Co-carcinogenic	2
Cold-preventive	1
Collagen-Sparing	1
Collagenic	2
Collyrium	1
Colorant	3
Comedogenic	1
Comedolytic	1
COMP-Inhibitor	1
COMT-Inhibitor	1
Contraceptive	1
Convulsant	1
Copper-Antagonist	1

Activity	Chemical Count
Copper-Chelator	2
COX-1-Inhibitor	2
COX-2-Inhibitor	7
Cyclooxygenase-Activator	2
Cyclooxygenase-Inhibitor	7
Cytochrome-P450-1A2-Inhibitor	1
Cytoprotective	1
Cytotoxic	8
Deiodinase-Inhibitor	1
Deliriant	1
Demulcent	2
Deodorant	1
Depigmentor	1
Depressant	1
Dermatitigenic	2
Detoxicant	1
Detoxicant (Alcohol)	1
Diaphoretic	1
Diaphoretic?	2
Differentiator	1

Activity	Chemical Count
Disinfectant	1
Diuretic	11
DNA-Active	1
DNA-Protective	1
Elastase-Inhibitor	1
Emetic	1
Encephalopathic	1
Energizer	1
Ergogenic	1
Erythrocytogenic	1
Estrogenic	3
Expectorant	1
Fistula-Preventive	1
Flatugenic	1
FLavor	3
Floral-Inhibitor	1
Fungicide	7
Gastroprotective	1
Glucosyl-Transferase-Inhibitor	2
Gram(+)icide	1

Activity	Chemical Count
Gram(-)-icide	1
Hemopoietic	1
Hemostat	5
Hepatocarcinogenic	1
Hepatomagenic	1
Hepatoprotective	9
Hepatotropic	2
Herbicide	1
Histamine-Inhibitor	1
HIV-RT-Inhibitor	2
Hypercholesterolemic	1
Hyperglycemic	1
Hypertensive	2
Hypocholesterolemic	9
Hypoglycemic	9
Hypotensive	10
ICAM-1-Inhibitor	1
Immunomodulator	8
Immunostimulant	9
Immunosuppressant	3

Activity	Chemical Count
iNOS-Inhibitor	2
Inotropic	2
Insectifuge	3
Insectiphile	1
Insulin-Sparing	2
Insulinogenic	6
Interferon-Synergist	1
Interferonogenic	1
Interleukin-1-alpha-Inhibitor	1
Interleukin-6-mRNA-Inhibitor	1
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	2
JNK-Inhibitor	1
Juvabional	1
Keratolytic	2
Larvostat	1
Laxative	4
Laxative?	2
Leptingenic	1
Leucocytogenic	1

Activity	Chemical Count
Leukotriene-Inhibitor	1
Lipoxygenase-1-Inhibitor	1
Lipoxygenase-Inhibitor	7
Lithogenic	2
Litholytic	2
Lyase-Inhibitor	1
MAO-A-Inhibitor	1
MAO-Inhibitor	2
Mast-Cell-Stabilizer	1
Memorigenic	1
Memory-Enhancer	1
Metal-Chelator	1
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	1
MMP-9-Inhibitor	2
Mucogenic	2
Mucolytic	1
Mutagenic	2
Mycobactericide	2
Mycoplasmistat	2

Activity	Chemical Count
Myorelaxant	2
NADH-Oxidase-Inhibitor	1
Natriuretic	1
Neoplastic	1
NEP-Inhibitor	1
Nephrotoxic	3
Neuroprotective	3
Neurotransmitter	1
NF-kB-Inhibitor	3
NO-Inhibitor	5
NO-Synthase-Inhibitor	1
Odontolytic	1
Ornithine-Decarboxylase-Inhibitor	5
Osteogenic	1
P450-Inducer	1
P450-Inhibitor	1
PAF-Inhibitor	1
Pancreatogenic	2
Parasiticide	1
Peristaltic	1

Activity	Chemical Count
Peroxynitrite-Scavenger	1
Pesticide	23
PGE2-Inhibitor	1
Phagocytotic	2
Phospholipase-Inhibitor	1
Phytoalexin	1
Piscicide	1
Plasmodicide	1
Polyamine-Synthesis-Inhibitor	1
Potassium-Sparing	1
Preservative	1
Proliferant	1
Prooxidant	4
Propepic	1
Prostaglandigenic	1
Prostaglandin-Sparer	1
Prostaglandin-Synthesis-Inhibitor	1
Protease-Inhibitor	1
Protein-Kinase-C-Inhibitor	2
Protisticide	2

Activity	Chemical Count
Psychotropic	1
PTK-Inhibitor	1
Quinone-Reductase-Inducer	4
Refrigerant	1
Reverse-Transcriptase-Inhibitor	1
Scabicide	1
Schizophrenigenic	1
Sedative	1
Sialogogue	1
Sodium-Sparing	1
Spermigenic	1
Styptic	1
Sunscreen	1
Sweetener	2
Teratologic	2
Testosteronigenic	1
Thermogenic	1
Thymoprotective	1
Tineacide	1
Tinnitigenic	1

Activity	Chemical Count
Tissue-Thromboplastin-Inhibitor	2
TNF-alpha-Inhibitor	4
TOPO-2-Inhibitor	1
Topoisomerase-I-Inhibitor	3
Topoisomerase-II-Inhibitor	3
Tranquilizer	2
Trichomonicide	1
Triglycerigenic	1
Trypanocide	1
Tumorigenic	2
Tyrosinase-Inhibitor	4
Tyrosine-Kinase-Inhibitor	1
Ubiquiot	1
Ulcerogenic	1
Uricogenic	1
Uricosuric	2
Urinary-Acidulant	1
Urinary-Antiseptic	1
Uterorelaxant	1
Uterotrophic	1

Activity	Chemical Count
Vasoconstrictor	1
Vasodilator	7
Vasopressor	1
VEGF-Inhibitor	2
Vulnerary	5
Xanthine-Oxidase-Inhibitor	8