

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in Ipomoea batatas**

Activity	Chemical Count
11B-HSD-Inhibitor	1
5-Alpha-Reductase-Inhibitor	5
5-HETE-Inhibitor	1
5-Lipoxygenase-Inhibitor	1
Absorbent	1
Acaricide	1
Acarifuge	1
ACE-Inhibitor	2
Acidulant	1
Acnegenic	1
Adjuvant	1
Aldehyde-Oxidase-Inhibitor	1
Aldose-Reductase-Inhibitor	5
Allelochemic	2
Allergenic	8
Alpha-Reductase-Inhibitor	1
Analgesic	8
Androgenic	1
Androgenic?	1
Anemiagenic	2
Angiotensin-Receptor-Blocker	3
Antiacid	1
Antiacne	5
Antiacrodermatitic	1
Antiacrodynic	1
AntiADD	1
Antiadenoviral	1

Activity	Chemical Count
Anti aflatoxin	1
AntiAGE	1
Antiaggregant	6
Antiaging	5
Antiakathisic	1
Antialcoholic	4
Antialdosteronic	1
Antialkali?	1
Antialkalotic	1
Antiallergic	5
Antialopepic	4
Antialzheimeran	6
Antiamblyopic	1
Antianaphylactic	2
Antiandrogenic	3
Antianemic	4
Antiangular	3
Antiangiogenic	2
Antianorectic	2
Antianorexic	1
Antianxiety	3
Antiarabiflavivotic	1
Antiarrhythmic	3
Antiartherosclerotic	3
Antiarthritic	12
Antiasthmatic	4
Antiatherogenic	1

Activity	Chemical Count
Antiatheromic	1
Antiatherosclerotic	6
Antibackache	1
Antibacterial	9
Antiberiberi	1
AntiBPH	1
Antibronchitic	1
Anticancer	3
Anticancer (Breast)	1
Anticancer (Colon)	1
Anticancer (Forestomach)	1
Anticancer (Liver)	1
Anticancer (Skin)	1
Anticanker	3
Anticarcinogenic	2
Anticarcinomic	1
Anticarcinomic (Breast)	1
Anticardiospasmic	1
Anticariogenic	2
Anticarpal-Tunnel	1
Anticataract	8
Anticephalagic	3
Anticervicaldysplasic	4
AntiCFS	2
Anticheilitic	3
Antichilblain	1
Anticholinergic	1

Activity	Chemical Count
Antichorea	1
Antichoreic	1
Anticlaudificant?	1
Anticlimacteric	3
Anticoeliac	1
Anticold	2
Anticolitic	3
Anticomplementary	1
Anticonvulsant	3
Anticoronary	5
AntiCrohn's	3
AntiCTS	1
Anticystitic	1
Antidandruff	2
Antidecubitic	4
Antideliriant	1
Antidementia	6
Antidepressant	9
Antidepressant?	1
Antidermatitic	4
Antidiabetic	11
Antidiabetic?	1
Antidiarrheic	1
Antidiscotic	1
Antidote (Acetaminophen)	1
Antidote (Aluminum)	2
Antidote (Cadmium)	2

Activity	Chemical Count
Antidote (Hypoglycin-A)	1
Antidote (Iodine)	1
Antidote (Lead)	2
Antidote (Paracetamol)	1
Antidote (Paraquat)	1
Antidysgeuzic	1
Antidyskinetic	2
Antidysmenorrhic	2
Antidyspeptic	1
Antidysphagic	1
AntiEBV	1
Antieczemic	5
Antiedemic	2
Antielastase	3
Antiencephalitic	2
Antiencephalopathic	7
Antiencephalopathic?	1
Antiendometriotic	2
Antienteritic	1
Antienterotic	1
Antiepileptic	5
Antiepitheleomic	1
Antiescherichic	2
Antiestrogenic	1
Antifatigue	6
Antifeedant	3
Antifibrinolytic	2

Activity	Chemical Count
Antifibromyalgic	1
Antifibrosarcomic	1
Antifibrositic	1
Antifibrotic	2
Antiflu	2
Antifuruncular	1
Antigallstone	2
Antigastric	1
Antigastritic	4
Antigastrotic	1
Antigenotoxic	1
Antigingivitic	2
Antiglaucomic	2
Antiglossitic	2
Antiglycosation	1
Antigoiter	1
Antigonadotropic	3
Antigranular	1
Antigrey	1
AntiGTF	1
Antihangover	4
Antiheartburn	1
Antihemolytic	2
Antihemorrhagic	1
Antihepatitic	2
Antihepatoadenomic	1
Antihepatotic	1

Activity	Chemical Count
Antihepatotoxic	4
Antiherpetic	8
Antiherpetic?	1
Antihistaminic	6
AntiHIV	4
Antihomocystinuric	1
Antihydrophobic	1
Antihyperactivity	1
Antihyperammonemic	1
Antihypercholesterolemic	3
Antihyperkeratotic	1
Antihyperkinetic	2
Antihypertensive	9
Antihyperthyroid	2
Antihypoglycemic	1
Antiichthyotic	1
Antiinelus?	1
Antiimpotence	2
Antiinfective	1
Antiinfertility	4
Antiinflammatory	13
Antiinsomniac	4
Antiinsomniac?	1
Antiinsomnic	1
Antiischemic	1
Antikeratitic	1
AntiLegionella	2

Activity	Chemical Count
Antileishmanic	1
Antileptic	2
Antileukemic	3
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	4
Antileukotriene-D4	4
Antilipoperoxidant	2
Antilithic	5
Antilupus	2
AntiLyme	5
Antilymphomic	1
Antimaculitic	4
Antimalarial	1
Antimanic	1
Antimastalgic	2
Antimastitic	1
AntiMD	1
Antimeasles	1
Antimelanogenic	2
Antimelanomic	2
AntiMeniere's	1
Antimenopausal	4
Antimenorrhagic	3
Antimetastatic	4
Antimigraine	5
Antimitral-valve-prolapse	1



Activity	Chemical Count
Antimorphinic	1
AntiMS	4
Antimutagenic	6
Antimyelotoxic	1
Antimyocarditic	2
Antimyoclonic	1
Antinephritic	1
Antinephrolytic	1
Antinesidioblastosic	1
Antineuralgic	2
Antineuramidase	1
Antineurasthenic	1
Antineuritic	2
Antineuropathic	4
Antineurotic	1
Antinitrosaminic	4
Antinitrosic	1
Antinociceptive	3
Antinyctalopic	1
Antiobesity	5
Antiophidic	1
Antiophthalmic	1
Antiorchitic	1
Antiosteoarthritic	4
Antiosteoporotic	8
Antiototic	1
Antioxidant	16

Activity	Chemical Count
Antioxidant?	2
Antiozenic	1
Antipancreatic	1
Antipapillomic	1
Antiparkinsonian	7
Antiparotitic	1
Antipellagic	3
Antiperiodontal	1
Antiperiodontitic	4
Antiperistaltic	1
Antipermeability	1
Antiperoxidant	3
Antipharyngitic	1
Antiphenylketonuric	2
Antiphotophobic	2
Antipityriasic	1
Antiplateque	4
Antiplasmodial	1
AntiPMS	6
Antipneumonic	1
Antipodriac	2
Antipolio	2
Antipoliomyelitic	2
Antipolyneuritic	1
Antiporphyrin	1
Antiprolactin	1
Antiproliferant	4

Activity	Chemical Count
Antiprostaglandin	2
Antiprostanoid	1
Antiprostatitic	6
Antiprostatotic	1
Antipruritic	1
Antipsoriac	2
Antipsychotic	2
Antipyretic	1
Antiradicular	7
AntiRaynaud's	3
Antiretardation	1
Antiretinopathic	1
Antiretinopathic?	1
Antiretinotic	1
Antirheumatic	6
Antirheumatitic?	1
Antirhinitic	1
Antiscoliotic	1
Antiscorbatic	1
Antiscotomic	1
Antiseborrheic	1
Antisenility	1
Antiseptic	9
Antishingles	1
Antisickling	3
Antisilicotic	1
Antispare-Tire	1

Activity	Chemical Count
Antispasmodic	7
Antispasmophilic	1
AntiSpina-Bifida	1
Antistaphylococcic	1
Antisterility	1
Antistomatitic	2
Antistreptococcic	1
Antistress	4
Antistroke	3
Antisunburn	3
Antisyndrome-X	5
Antithalassemic	1
Antithiamin	2
Antithrombic	1
Antithrombotic	1
Antithromboxane-B2	1
Antithyroid	2
Antithyrototoxic	1
Antitic	1
Antitinnitic	1
Antitoxemic	1
Antitriglyceride	1
Antitrypanosomic	1
Antitumor	8
Antitumor (Bladder)	1
Antitumor (Breast)	3
Antitumor (CNS)	1

Activity	Chemical Count
Antitumor (Colon)	4
Antitumor (Colorectal)	1
Antitumor (Foreestomach)	1
Antitumor (Gastric)	1
Antitumor (Liver)	1
Antitumor (Lung)	3
Antitumor (Ovary)	1
Antitumor (Prostate)	3
Antitumor (Skin)	3
Antitumor (Stomach)	2
Antitumor-Promoter	4
Antitussive	1
Antiulcer	11
Antiulcerogenic	2
Antiuremic	1
Antivaccinia	1
Antivaginitic	1
Antivertigo	1
Antiviral	6
Antiviral?	1
Antivitaligic	1
Antixerophthalmic	1
Anxiolytic	6
Aphrodisiac	1
Apoptotic	3
Asthma-preventive	1
Astringent	1

Activity	Chemical Count
ATPase-Inhibitor	1
Autotoxic	1
Bacteristat	1
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	1
Bradycardiac	1
Bronchorelaxant	1
Calcium-Antagonist	4
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	1
Cancer-Preventive	23
Candidicide	3
Capillarigenic	1
Capillariprotective	1
Carcinogenic	4
Cardioprotective	8
Cardiotoxic	1
Catabolic	1
Cerebroprotective	1
Chemopreventive	5
Cholagogue	2
Choleretic	4
Circulatory-Stimulant	1
Circulotonic	2
Clastogenic	2

Activity	Chemical Count
CNS-Active	2
CNS-Depressant	2
CNS-Paralytic	1
CNS-Stimulant	1
Co-carcinogenic	1
Cold-preventive	1
Collagen-Sparing	2
Collagenic	2
Colorant	1
Comedogenic	1
Comedolytic	1
COMT-Inhibitor	1
Contraceptive	1
Copper-Antagonist	1
Copper-Chelator	1
Cosmetic	1
COX-1-Inhibitor	1
COX-2-Inhibitor	3
Cyclooxygenase-Inhibitor	1
Cytochrome-P450-1A2-Inhibitor	1
Cytoprotective	1
Cytotoxic	2
Deiodinase-Inhibitor	1
Demulcent	1
Deodorant	1
Dermatitigenic	3
Detoxicant	1

Activity	Chemical Count
Detoxicant (Alcohol)	1
Diaphoretic	1
Diaphoretic?	1
Differentiator	1
Diuretic	9
DNA-Active	1
DNA-Protective	1
Emetic	2
Emollient	1
Encephalopathic	1
Ergogenic	1
Essential	8
Estrogenic	2
Fatal	1
Fibrinolytic	1
Fistula-Preventive	1
FLavor	6
Fungicide	6
Gastroprotective	1
Glucosyl-Transferase-Inhibitor	1
Glutathionigenic	1
Goitrogenic	1
Hematopoietic	1
Hemolytic	1
Hemostat	2
Hemostatic	1
Hepatocarcinogenic	1



Activity	Chemical Count
Hepatomagenic	1
Hepatoprotective	7
Hepatotoxic	1
Hepatotropic	1
Histamine-Inhibitor	2
HIV-RT-Inhibitor	1
Hypercholesterolemic	1
Hypertensive	1
Hyperthyroid	1
Hypnotic	1
Hypoammonemic	1
Hypoarginanemic	1
Hypocholesterolemic	13
Hypoglycemic	8
Hypolipidemic	1
Hypotensive	9
Hypouricemic	1
Immunomodulator	6
Immunostimulant	9
Immunosuppressant	1
Inflammatory	1
iNOS-Inhibitor	1
Inotropic	1
Insectifuge	6
Insectiphile	1
Insulin-Sparing	1
Insulinase-Inhibitor	1

Activity	Chemical Count
Insulinogenic	3
Insulinotonic	1
Interferon-Synergist	1
Interferonogenic	2
Irritant	3
Juvabional	2
Keratolytic	1
Larvostat	3
Laxative	5
Leptogenic	1
Leukotriene-Inhibitor	2
Lipotropic	1
Lipoxygenase-Inhibitor	5
Lithogenic	2
Litholytic	1
Lubricant	2
Lyase-Inhibitor	1
Lymphocytogenic	1
MAO-A-Inhibitor	1
Mast-Cell-Stabilizer	1
Metal-Chelator	2
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	1
Metastatic	1
MMP-9-Inhibitor	1
Monoamine-Precursor	3
Mucogenic	2

Activity	Chemical Count
Mucolytic	1
Mutagenic	1
Myorelaxant	1
NADH-Oxidase-Inhibitor	1
Nematicide	2
NEP-Inhibitor	1
Neuroexcitant	1
Neuroinhibitor	1
Neuroprotective	2
Neurotoxic	1
Neurotransmitter	1
NF-kB-Inhibitor	2
NO-Genic	2
NO-Inhibitor	2
NO-Synthase-Inhibitor	1
Ornithine-Decarboxylase-Inhibitor	4
Osteogenic	1
Oviposition-Stimulant	1
Oxidant	2
P21-Inducer	1
P450-Inducer	1
P450-Inhibitor	1
Parasiticide	1
Percutaneostimulant	2
Perfumery	4
Peristaltic	1
Pesticide	16

Activity	Chemical Count
PGE2-Inhibitor	1
Phagocytotic	1
Phospholipase-A2-Inhibitor	1
Phospholipase-Inhibitor	1
Pigment	1
Pituitary-Stimulant	1
Plasmodicide	1
Poultice	1
Prolactinogenic	1
Proliferant	1
Prooxidant	3
Propecic	5
Prostaglandigenic	1
Prostaglandin-Synthesis-Inhibitor	2
Protein-Kinase-C-Inhibitor	2
Protisticide	1
PTK-Inhibitor	1
Quinone-Reductase-Inducer	1
Renotoxic	1
Roborant	1
Scabicide	1
Schizophrenigenic	1
Sedative	3
Serotoninergic	2
Soap	1
Spermigenic	2
Sunscreen	3

Activity	Chemical Count
Suppository	1
Sweetener	1
Teratologic	1
Testosteronigenic	1
Thymoprotective	1
Thyrotropic	1
TNF-alpha-Inhibitor	2
Topoisomerase-I-Inhibitor	1
Topoisomerase-II-Inhibitor	2
Tranquilizer	2
Tremorigenic	1
Trichomonicide	1
Tumor-Promoter	1
Tumorigenic	2
Tyrosinase-Inhibitor	1
Tyrosine-Kinase-Inhibitor	1
Ubiquit	1
Uricosuric	3
Urinary-Acidulant	1
Urine-Acidifier	1
Urine-Deodorant	1
Uterorelaxant	1
Varroacide	1
Vasodilator	10
VEGF-Inhibitor	1
Vulnerary	5
Xanthine-Oxidase-Inhibitor	3