

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in Inula helenium**

<b>Activity</b>	<b>Chemical Count</b>
Xanthine-Oxidase-Inhibitor	2
Vulnerary	2
Vermifuge	2
VEGF-Inhibitor	3
Vasodilator	6
Uterosedative	1
Uterorelaxant	1
Urinary-Antiseptic	1
Urinary-Acidulant	1
Uricosuric	1
Ulcerogenic	1
Ubiquitot	3
Tyrosine-Kinase-Inhibitor	1
Tyrosinase-Inhibitor	1
Tumorigenic	1
Trichomonicide	3
Trematodicide	1
Tranquilizer?	1
Tranquilizer	2
Topoisomerase-II-Inhibitor	1
Topoisomerase-I-Inhibitor	1
TNF-alpha-Inhibitor	1
Thymoprotective	1
Testosteronigenic	1
Teratologic	1
Sympathomimetic	1
Sweetener	1

Activity	Chemical Count
Sunscreen	1
Spermigenic	1
Spermicide	1
Serotoninerpic	1
Sedative	2
Secretolytic	1
Secretagogue	1
Schizophrenigenic	1
Schistosomicide	1
Respiroanaleptic	1
Quinone-Reductase-Inducer	1
PTK-Inhibitor	1
Protisticide	2
Protein-Kinase-C-Inhibitor	2
Prostaglandin-Synthesis-Inhibitor	2
Prostaglandin-Sparer	1
Prooxidant	2
Proliferant	1
Probiotigenic	1
Probiotic	1
Prebiotic	1
Polyamine-Synthesis-Inhibitor	1
Plasmodicide	1
Piscicide	1
Phytohormonal	1
Phytoalexin	1
Photoactive	1

Activity	Chemical Count
Phospholipase-Inhibitor	1
Pheromone	1
Phagocytotic	1
PGE2-Inhibitor	1
Pesticide	17
Perfumery	1
Paralytic	1
P450-Inhibitor	1
P450-Inducer	1
Ovulant	1
Osteogenic	1
Ornithine-Decarboxylase-Inhibitor	2
NO-Synthase-Inhibitor	1
NO-Inhibitor	1
NF-kB-Inhibitor	3
Neurotransmitter	1
Neuroprotective	1
NEP-Inhibitor	1
Nematicide	2
NADH-Oxidase-Inhibitor	1
Myorelaxant	2
Mycobactericide	1
Mutagenic	1
Musculotropic	1
Mucolytic	1
Mucogenic	2
Molluscicide	1

Activity	Chemical Count
MMP-9-Inhibitor	1
Mitogenic	1
Metalloproteinase-Inhibitor	1
Metal-Chelator (Copper)	1
Memorigenic	1
Mast-Cell-Stabilizer	1
MAO-Inhibitor	1
MAO-A-Inhibitor	1
Litholytic	1
Lithogenic	1
Lipoxygenase-Inhibitor	2
Lipotropic	1
Lipolytic	1
Leptogenic	1
Laxative	3
Larvostat	1
Juvabional	1
Irritant	1
Interferonogenic	1
Interferon-Synergist	1
Insulinogenic	4
Insulin-Sparing	1
Insectifuge	3
Insecticide	1
Inotropic	2
iNOS-Inhibitor	1
Immunosuppressant	1

Activity	Chemical Count
Immunostimulant	8
Immunomodulator	6
Hypotensive	8
Hypolipidemic	2
Hypoglycemic	9
Hypocholesterolemic	11
Hypertensive	1
Hyperglycemic	1
HIV-RT-Inhibitor	1
Herbistat	1
Herbicide	2
Hepatotoxic	1
Hepatoregenerative	1
Hepatoprotective	4
Hepatomagenic	1
Hemostat	1
Gonadotrophic	1
Glucosyl-Transferase-Inhibitor	1
Gastrostimulant	1
Gastroprotective	1
Fungicide	7
Fistula-Preventive	1
Fibrinolytic	1
Febrifuge	1
Expectorant	2
Estrogenic	3
Erythrocytogenic	1

Activity	Chemical Count
Ergogenic	1
Energizer	1
Encephalopathic	1
Diuretic	6
Differentiator	1
Diaphoretic?	1
Detoxicant (Alcohol)	1
Detoxicant	1
Dermatitigenic	3
Depressant	1
Deodorant	1
Demulcent	1
Deiodinase-Inhibitor	1
Degranulant	1
Cytotoxic	6
Cytoprotective	1
Cytochrome-P450-1A2-Inhibitor	1
Cyclooxygenase-Inhibitor	1
COX-2-Inhibitor	2
COX-1-Inhibitor	1
Copper-Chelator	1
Copper-Antagonist	1
Contraceptive	1
COMT-Inhibitor	1
Colorant	1
Collagenic	2
Cold-preventive	1

Activity	Chemical Count
CNS-Stimulant	1
CNS-Depressant	2
Circulotonic	1
Cholesterolytic	1
Choleretic	3
Cholagogue	2
Chemopreventive (Colon Cancer)	1
Chemopreventive (Breast Cancer)	1
Chemopreventive	1
Catabolic	1
Caspase-8-Inducer	1
Cardiotoxic	2
Cardioprotective	8
Cardiomyopathogenic	1
Carcinogenic	1
Capillariprotective	1
Candidicide	4
Cancer-Preventive	11
cAMP-Phosphodiesterase-Inhibitor	1
Calmodulin-Antagonist	1
Calcium-Channel-Blocker	1
Calcium-Antagonist	2
Bronchorelaxant	1
Bradycardiac	1
Bifidogenic	1
Beta-Glucuronidase-Inhibitor	1
Beta-Blocker	1

Activity	Chemical Count
Beta-Adrenergic Receptor Blocker	1
Bacteristat	2
ATPase-Inhibitor	1
Astringent	1
Asthma-preventive	1
Artemicide	2
Apoptotic	5
AP-1-Inhibitor	1
Anxiolytic	6
Antixerophthalmic	1
Antiviral?	1
Antiviral	6
Antivertigo	1
Antivaginitic	1
Antiulcerogenic	1
Antiulcer	6
Antitumor-Promoter	1
Antitumor (Stomach)	1
Antitumor (Skin)	1
Antitumor (Prostate)	2
Antitumor (Ovary)	1
Antitumor (Lung)	5
Antitumor (Gastric)	1
Antitumor (Esophagus)?	1
Antitumor (Colon)	2
Antitumor (CNS)	1
Antitumor (Cervix)	1



Activity	Chemical Count
Antitumor (Breast)	4
Antitumor (brain)	1
Antitumor (Bladder)	1
Antitumor	7
Antitubercular	2
Antitrypanosomic	1
Antitriglyceride	2
Antitinnitic	1
Antitic	1
Antithrombic	1
Antithiamin	1
Antisyndrome-X	6
Antistroke	2
Antistress	4
Antistreptococcic	1
Antistomatitic	2
Antistaphylococcic	1
Antispasmophilic	1
Antispasmodic	8
Antispare-Tire	1
Antisilicotic	1
Antishingles	1
Antiseptic	7
Antiscotomic	1
Antiscorbatic	1
Antirhinitic	1
Antirheumatic	6

Activity	Chemical Count
Antiretinotic	1
Antiretinopathic	1
AntiRaynaud's	3
Antiradicular	4
Antipyretic	3
Antipsoriac	2
Antiprostatitic	3
Antiprostataadenomic	1
Antiprostanoid	1
Antiprostaglandin	3
Antiproliferant	4
Antiprolactin	1
Antiprogestational	1
Antiporphyrin	1
Antipoliomyelitic	1
Antipolio	2
Antipodriac	2
Antipneumonic	1
AntiPMS	5
Antiplatelet	1
Antiplasmodial	1
Antiplatelet	3
Antipityriasis	1
Antiphotophobic	2
Antipharyngitic	1
Antiperoxidant	1
Antipermeability	1

Activity	Chemical Count
Antiperistaltic	1
Antiperiodontitic	3
Antiperiodontal	1
Antipellagic	2
Antiparotitic	1
Antiparkinsonian	3
Antipapillomic	1
Antipancreatic	1
Antiozenic	1
Antioxidant	11
Antiototic	1
Antiosteoporotic?	1
Antiosteoporotic	8
Antiosteoarthritic	2
Antiorchitic	1
Antiophidic	2
Antionychyotic	1
Antiobesity?	1
Antiobesity	4
Antinyctalopic	1
Antinociceptive	3
Antinitrosic	1
Antinitrosaminic	1
AntiNF-kB	1
Antineurotic	1
Antineuropathic?	1
Antineuropathic	1

Activity	Chemical Count
Antineuramidase	1
Antineuralgic	1
Antinephrolytic	1
Antimyocarditic	1
Antimyalgic	1
Antimutagenic	7
AntiMS	1
Antimitral-valve-prolapse	1
Antimitotic	1
Antimigraine	3
Antimetastatic	3
Antimenorrhagic	1
Antimenopausal	4
AntiMeniere's	1
Antimelanomic	2
Antimeasles	1
Antimastitic	1
Antimastalgic	1
Antimalarial	1
Antimaculitic	4
Antilymphomic	2
Antilymphocytic	1
AntiLyme	4
Antilupus	1
Antilithic	2
Antilipoperoxidant	2
Antileukotrienogenic	1

Activity	Chemical Count
Antileukotriene	2
Antileukoplakic	1
Antileukonychic	1
Antileukemic	3
Antileptic	2
Antileishmanic	1
Antikeshan	1
Antikeratitic	1
Antiinsomnic	1
Antiinsomniac	3
Antiinflammatory	13
Antiinfertility	2
Antiinfective	1
Antiimpotence	1
Antiichthyotic	1
Antihypoglycemic	1
Antihypertensive	5
Antihyperlipoproteinaemic	1
Antihyperlipidemic	1
Antihyperkinetic	2
Antihyperkeratotic	1
Antihyperactivity	1
Antihydrophobic	1
AntiHIV	3
Antihistaminic	5
Antiherpetic?	1
Antiherpetic	3

Activity	Chemical Count
Antihepatotoxic	4
Antihepatitic	1
Antihemorrhagic	1
Antihangover	3
AntiGTF	1
Antigout	1
Antigonadotropic	1
Antigonadotrophic	1
Antiglycosuric	1
Antiglossitic	1
Antiglaucomic	2
Antigingivitic	1
Antigastrotic	1
Antigastritic	1
Antigastric	1
Antigallstone	1
Antifuruncular	1
Antiflu	1
Antifibrotic	3
Antifibrosarcomic	1
Antifibromyalgic	1
Antifertility	1
Antifeedant	6
Antifatigue	5
Antiestrogenic	2
Antiescherichic	1
Antiepileptic	4

Activity	Chemical Count
Antienterotic	1
Antiendometriotic	2
Antiencephalopathic	1
Antiencephalitic	2
Antielastase	1
Antiedemic	5
Antieczemic	2
Antidysphagic	1
Antidysmenorrhic	1
Antidyskinetic	1
Antidysgeuzic	1
Antidote (Paraquat)	1
Antidote (Mercury)	1
Antidote (Lead)	3
Antidote (Cadmium)	2
Antidote (Aluminum)	2
Antidiscotic	1
Antidiphtheric	1
Antidiarrheic	1
Antidiabetic?	1
Antidiabetic	9
Antidermatitic	2
Antidepressant	6
Antidementia	3
Antidecubitic	2
Antidandruff	2
Anticystitic	1

Activity	Chemical Count
AntiCTS	1
AntiCrohn's	3
Anticoronary	4
Anticorneotic	1
Anticonvulsant	2
Anticomplementary	1
Anticolitic?	1
Anticolitic	2
Anticold	2
Anticoeliac	1
Anticlimacteric	4
Anticirrhotic?	1
Anticirrhotic	2
Anticholinergic	1
Antichilblain	1
Anticheilitic	2
AntiCFS	3
Anticervicaldysplasic	3
Anticephalagic	2
Anticataract	6
Anticarpal-Tunnel	1
Anticariogenic	1
Anticarcinomic (Breast)	1
Anticarcinomic	1
Anticanker	2
Anticancer (Lung)	1
Anticancer (Esophagus)?	1



Activity	Chemical Count
Anticancer (Cervix)	1
Anticancer (Breast)	1
Anticancer	1
Antibronchoconstrictor	1
AntiBPH	1
Antibiotic	2
Antibacterial	10
Antiatherosclerotic	6
Antiasthmatic	6
Antiarthritic	10
Antiarteriosclerotic	1
Antiarrhythmic	4
Antiarabiflavinotic	1
Antianxiety	2
Antianorexic	1
Antianorectic	1
Antiangiogenic	4
Antianginal	2
Antianemic	3
Antiandrogenic	1
Antianaphylactic	1
Antiamebic	2
Antiamblyopic	1
Antialzheimeran	4
Antialopepic	2
Antiallergic	5
Antialcoholic	3

Activity	Chemical Count
Antiakathisic	1
Antiaging	4
Antiaggregant	4
AntiAGE	2
Antiaflatoxin	2
Antiadrenergic	1
Antiadrenalinic	1
Antiadenomic	1
Antiacrodynic	1
Antiacrodermatitic	1
Antiacne	4
Anthelmintic	4
Anorexic	2
Angiotensin-Receptor-Blocker	2
Angiogenic	1
Anesthetic	1
Androgenic?	1
Androgenic	1
Analgesic	6
Amphiglycemic?	1
Allergenic	7
Allelochemic	3
Aldose-Reductase-Inhibitor	4
Aldehyde-Oxidase-Inhibitor	1
Alcohol-Dehydrogenase-Inhibitor	1
Acidulant	1
ACE-Inhibitor	1

Activity	Chemical Count
5-Lipoxygenase-Inhibitor	1
11B-HSD-Inhibitor	1