

Dr. Duke's Phytochemical and Ethnobotanical Database**Biological Activities Found in *Cynara cardunculus***

Activity	Chemical Count
11B-HSD-Inhibitor	3
5-Alpha-Reductase-Inhibitor	4
5-HT-Inhibitor	1
5-Lipoxygenase-Inhibitor	1
Acaricide	1
ACE-Inhibitor	1
Acidulant	1
Alcohol-Dehydrogenase-Inhibitor	1
Aldehyde-Oxidase-Inhibitor	2
Aldose-Reductase-Inhibitor	12
Allelochemic	4
Allelopathic	1
Allergenic	10
Alpha-Reductase-Inhibitor	1
Analgesic	11
Androgenic	2
Androgenic?	1
Anemiagenic	2

Activity	Chemical Count
Anesthetic	2
Angiogenic	1
Angiotensin-Receptor-Blocker	3
Anorexic	1
Anthelmintic	1
Anti-LDL	1
Antiacetylcholinesterase	1
Antiacne	5
Antiacrodermatitic	1
Antiacrodynic	1
AntiADD	1
Antiadenomic	1
Antiadenoviral	1
Antiadrenergic	1
Antiaflatoxin	4
AntiAGE	1
Antiaggregant	9
Antiaging	5
Antiakathisic	1
Antialcoholic	4

Activity	Chemical Count
Antiallergenic	1
Antiallergic	9
Antialopecic	4
Antialzheimeran	6
Antiamblyopic	1
Antiamnesic	1
Antiamyloid-Beta	1
Antianaphylactic	2
Antiandrogenic	4
Antianemic	4
Antianginal	2
Antiangiogenic	4
Antianorectic	2
Antianorexic	1
Antianxiety	2
Antiapoplectic	1
Antiarabiflavinotic	1
Antiarachidonate	1
Antiarrhythmic	6
Antiarteriosclerotic	1

Activity	Chemical Count
Antiarthritic	10
Antiasthmatic	6
Antiatherogenic	3
Antiatherosclerotic	6
Antibackache	1
Antibacterial	18
Antiberiberi	1
AntiBPH	1
Antibradykinic	1
Antibronchoconstrictor	1
Anticancer	5
Anticancer (Breast)	1
Anticancer (Cervix)	1
Anticancer (Colon)	2
Anticancer (Forestomach)	2
Anticancer (Liver)	2
Anticancer (Lung)	2
Anticancer (Skin)	2
Anticanker	3
Anticapillary-Fragility	2

Activity	Chemical Count
Anticarcinogenic	4
Anticarcinomic	2
Anticarcinomic (Breast)	1
Anticardiospasmic	1
Anticariogenic	3
Anticarpal-Tunnel	1
Anticataract	8
Anticephalagic	3
Anticervicaldysplasic	4
AntiCFS	2
Anticheilitic	3
Antichilblain	1
Anticholinergic	1
Anticlastogen	1
Anticlaudificant?	1
Anticlimacteric	3
Anticoeliac	1
Anticold	2
Anticolitic	3
Anticolitic?	1

Activity	Chemical Count
Anticomplementary	6
Anticonvulsant	4
Anticoronary	4
AntiCrohn's	3
AntiCTS	1
AntiCVI	1
Anticystitic	1
Antidandruff	1
Antidecubitic	3
Antideliriant	1
Antidementia	5
Antidepressant	7
Antidermatic	1
Antidermatitic	6
Antidiabetic	11
Antidiarrheic	2
Antidiscotic	1
AntiDNA	1
Antidote (Aluminum)	2
Antidote (Cadmium)	2

Activity	Chemical Count
Antidote (Lead)	2
Antidote (Paraquat)	1
Antidysenteric	1
Antidysgeuzic	1
Antidyskinetic	1
Antidysmenorrheic	2
Antidyspeptic	2
Antidysphagic	1
AntiEBV	1
Antieczemic	4
Antiedemic	8
Antielastase	2
Antiencephalitic	2
Antiencephalopathic	2
Antiendometriotic	2
Antienterotic	1
Antiepileptic	4
Antierythemic	1
Antiescherichic	3
Antiestrogenic	7

Activity	Chemical Count
Antifatigue	6
Antifeedant	10
Antifertility	1
Antifibrinolytic	2
Antifibromyalgic	1
Antifibrosarcomic	1
Antifibrotic	3
Antiflu	3
Antifuruncular	1
Antigallstone	1
Antigastric	1
Antigastritic	2
Antigastrotic	1
Antigenotoxic	2
Antigingivitic	2
Antiglaucomic	3
Antiglossitic	2
Antigonadotrophic	1
Antigonadotropic	3
Antigranular	1

Activity	Chemical Count
AntiGTF	1
Antihangover	4
Antiheartburn	1
Antihematuric	1
Antihemolytic	2
Antihemorrhagic	1
Antihemorrhoidal	1
Antihepatitic	1
Antihepatoadenomic	1
Antihepatotoxic	11
Antiherpetic	11
Antiherpetic?	1
Antihistaminic	10
AntiHIV	9
AntiHIV-Integrase	1
Antihydrophobic	1
Antihyperactivity	1
Antihypercholesterolemic	3
Antihyperkeratotic	1
Antihyperkinetic	2

Activity	Chemical Count
Antihyperlipidemic	1
Antihyperlipoproteinaemic	1
Antihypertensive	8
Antihyperthyroid	3
Antihypoglycemic	1
Antiichthyotic	1
Antiilus?	1
Antiimpotence	1
Antiinfective	1
Antiinfertility	2
Antiinflammatory	23
Antiinsomniac	3
Antiinsomniac?	1
Antiinsomnic	1
Antikeratitic	1
Antikeratotic	1
AntiLegionella	2
Antileishmanic	2
Antileptic	2
Antileukemic	7

Activity	Chemical Count
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	4
Antileukotriene-D4	3
Antileukotrienogenic	1
Antilipolytic	3
Antilipoperoxidant	2
Antilithic	2
Antilupus	1
AntiLyme	5
Antilymphomic	3
Antimaculitic	3
Antimalarial	3
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanogenic	2
Antimelanomic	4
AntiMeniere's	1
Antimenopausal	3

Activity	Chemical Count
Antimenorrhagic	2
Antimetastatic	4
Antimigraine	4
Antimitotic	2
Antimitral-valve-prolapse	1
AntiMS	3
Antimutagenic	14
Antimyelotoxic	1
Antimyocarditic	2
Antineoplastic	1
Antinephritic	2
Antinephrolytic	1
Antineuralgic	2
Antineuramidase	1
Antineurasthenic	1
Antineuritic	1
Antineuropathic	3
Antineurotic	1
Antinitrosaminic	4
Antinitrosating	1

Activity	Chemical Count
Antinitrosic	1
Antinociceptive	5
Antinyctalopic	1
Antiobesity	4
Antiobesity?	1
Antionychyotic	1
Antiophidic	4
Antiorchitic	1
Antiosteoarthritic	2
Antiosteoporotic	8
Antiosteoporotic?	1
Antiototic	1
Antioxidant	26
Antiozenic	1
Antipancreatitic	1
Antipapillomic	1
Antiparkinsonian	2
Antiparotitic	1
Antipellagic	2
Antiperiodontal	1

Activity	Chemical Count
Antiperiodontitic	4
Antiperistaltic	3
Antipermeability	1
Antiperoxidant	8
Antiperoxidative	1
Antipharyngitic	1
Antiphotophobic	2
Antipityriasic	1
Antiplatelet	4
Antiplasmodial	2
Antiplatelet	1
AntiPMS	5
Antipneumonic	1
Antipodriac	2
Antipolio	3
Antipoliomyelitic	2
Antipolyneuritic	1
Antiporphyrin	1
Antiprogestational	1
Antiprolactin	1

Activity	Chemical Count
Antiproliferant	8
Antiprostaglandin	5
Antiprostanoid	1
Antiprostataadenomic	1
Antiprostatic	4
Antiprotozoal	1
Antipsoriac	2
Antipsychotic	1
Antipurpuric	1
Antipyretic	3
Antiradicular	10
AntiRaynaud's	3
Antirenitic	1
Antiretinopathic	1
Antiretinotic	1
Antirheumatic	4
Antirheumatitic?	1
Antirhinitic	1
AntiRNA	1
Antisalmonella	1

Activity	Chemical Count
Antiscorbutic	1
Antiscotomic	1
Antiseptic	7
Antiserotonin	1
Antishingles	1
Antisindhis	1
Antispare-Tire	1
Antispasmodic	14
Antispasmophilic	1
AntiSpina-Bifida	1
Antistaphylococcic	5
Antistomatitic	3
Antistreptococcic	3
Antistress	5
Antistroke	2
Antisunburn	4
Antisyndrome-X	4
Antithiamin	2
Antithrombic	2
Antithrombogenic	1

Activity	Chemical Count
Antithromboxane	1
Antithyroid	4
Antitic	1
Antitinnitic	1
AntiTNF	1
Antitriglyceride	2
Antitrypanosomic	2
Antitumor	17
Antitumor (Bladder)	1
Antitumor (brain)	1
Antitumor (Breast)	4
Antitumor (Cervix)	1
Antitumor (CNS)	1
Antitumor (Colon)	5
Antitumor (Forestomach)	2
Antitumor (Gastric)	1
Antitumor (Kidney)	1
Antitumor (Liver)	2
Antitumor (Lung)	6
Antitumor (Ovary)	2

Activity	Chemical Count
Antitumor (Pancreas)	1
Antitumor (Prostate)	1
Antitumor (Skin)	6
Antitumor (Stomach)	2
Antitumor (Thyroid)	1
Antitumor-Promoter	7
Antitussive	1
Antiulcer	12
Antiulcerogenic	1
Antivaccinia	2
Antivaricose	1
Antivertigo	1
Antiviral	16
Antiviral?	1
Antixerophthalmic	1
Anxiolytic	7
Aphidifuge	2
Apifuge	1
Apoptotic	7
Aromatase-Inhibitor	3

Activity	Chemical Count
Artemicide	2
Arteriodilator	1
Asthma-preventive	1
Astringent	1
ATPase-Inhibitor	1
Autotoxic	1
Bacteristat	1
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	3
Bifidogenic	1
Bradycardiac	1
Bronchorelaxant	1
Calcium-Antagonist	7
Calcium-Antagonist?	1
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	3
Cancer-Preventive	26
Candidicide	8

Activity	Chemical Count
Capillariprotective	3
Carcinogenic	4
Carcinogenic?	1
Cardiac	1
Cardioprotective	7
Cardiotoxic	1
Carminative	1
Caspase-8-Inducer	1
Catabolic	3
Chelator	1
Chemopreventive	5
Chemopreventive (Breast Cancer)	1
Chemopreventive (Colon Cancer)	1
Cholagogue	5
Choleretic	17
Cholesterolytic	3
Circulotonic	1
Clastogenic	2
CNS-Active	3
CNS-Depressant	5

Activity	Chemical Count
CNS-Stimulant	2
Co-carcinogenic	1
Cold-preventive	1
Collagen-Sparing	3
Collagenic	2
Colorant	1
Comedolytic	1
COMT-Inhibitor	1
Contraceptive	1
Copper-Antagonist	1
Copper-Chelator	1
Cosmetic	2
COX-1-Inhibitor	4
COX-2-Inhibitor	6
Cyclooxygenase-Inhibitor	4
Cytochrome-P450-1A1-Inhibitor	1
Cytochrome-P450-1A2-Inhibitor	1
Cytochrome-P450-Inhibitor	2
Cytoprotective	3
Cytotoxic	8

Activity	Chemical Count
Decarboxylase-Inhibitor	1
Deiodinase-Inhibitor	3
Demulcent	1
Deodorant	1
Dermatitigenic	3
Detoxicant	1
Detoxicant (Alcohol)	1
Diaphoretic?	1
Differentiator	3
Diuretic	12
DNA-Active	1
DNA-Protective	2
Embryotoxic	1
Enterorelaxant	1
Ergogenic	1
Estrogenic	7
Estrogenic?	1
Expectorant	1
Febrifuge	1
Fibrinolytic	1

Activity	Chemical Count
Fistula-Preventive	1
FLavor	7
Fungicide	9
Fungistat	2
Gastroprotective	2
Gastrostimulant	1
Glucosyl-Transferase-Inhibitor	2
Gonadotrophic	1
Hematopoietic	1
Hemolytic	1
Hemostat	2
Hepatocarcinogenic	1
Hepatomagenic	2
Hepatoprotective	15
Hepatoregenerative	1
Hepatotonic	4
Hepatotoxic	1
Hepatotropic	2
Herbicide	3
HIF-1alpha-Inhibitor	1

Activity	Chemical Count
Histamine-Inhibitor	2
HIV-RT-Inhibitor	1
Hyaluronidase-Inhibitor	2
Hydrocholerectic	1
Hypercholesterolemic	3
Hyperemic	1
Hypertensive	1
Hypocholesterolemic	19
Hypoglycemic	8
Hypolipidemic	5
Hypotensive	9
Hypotriglyceridemic	1
Hypouricemic	1
ICAM-1-Inhibitor	2
IKK-Inhibitor	2
Immunomodulator	6
Immunostimulant	8
Immunosuppressant	2
iNOS-Inhibitor	3
Inotropic	2

Activity	Chemical Count
Insecticide	2
Insectifuge	9
Insectiphile	1
Insulinogenic	3
Interferon-Synergist	1
Interferonogenic	2
Interleukin-6-Inhibitor	1
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	5
Juvabional	4
Larvicide	2
Larvostat	3
Laxative	4
Leptingenic	1
Leukotriene-Inhibitor	2
Lipolytic	2
Lipoxygenase-Inhibitor	7
Lithogenic	1
Litholytic	1
Lubricant	3

Activity	Chemical Count
Lyase-Inhibitor	1
MAO-A-Inhibitor	1
MAO-Inhibitor	3
MAPK-Inhibitor	2
Mast-Cell-Stabilizer	1
Metal-Chelator	3
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	2
Metastatic	1
MMP-9-Inhibitor	2
Mosquitocide	1
Motor-Depressant	1
Mucogenic	2
Mucolytic	1
Musculotropic	2
Mutagenic	3
Myoprotective	1
Myorelaxant	5
NADH-Oxidase-Inhibitor	2
Nematicide	4

Activity	Chemical Count
NEP-Inhibitor	2
Neuroprotective	3
Neurotoxic	2
Neurotransmitter	1
NF-kB-Inhibitor	4
NO-Genic	1
NO-Inhibitor	2
NO-Synthase-Inhibitor	2
Nodulation-Signal	1
Ornithine-Decarboxylase-Inhibitor	6
Osteogenic	1
Oviposition-Stimulant	2
Ovulant	1
P21-Inducer	1
P450-Inducer	1
P450-Inhibitor	2
PAF-Inhibitor	1
Percutaneostimulant	2
Perfumery	7
Pesticide	23

Activity	Chemical Count
PGE2-Inhibitor	1
Phagocytotic	2
Phospholipase-Inhibitor	1
Phytoalexin	1
Phytohormonal	1
PKC-Inhibitor	1
Plasmodicide	1
Polyamine-Synthesis-Inhibitor	1
Prebiotic	1
Preservative	1
Probiotic	1
Probiotigenic	1
Progestational	1
ProHDL	1
Proliferant	2
Prooxidant	3
Propepic	4
Prostaglandigenic	2
Prostaglandin-Synthesis-Inhibitor	3
Prostaglandin-Synthetase-Inhibitor	1

Activity	Chemical Count
Protein-Kinase-C-Inhibitor	3
Protisticide	1
Psychotropic	1
PTK-Inhibitor	3
Quinone-Reductase-Inducer	2
Radioprotective	2
Schizophrenigenic	1
Sedative	6
Serotonin-Inhibitor	1
Serotonergic	1
Soap	1
Spermicide	1
Spermigenic	1
Succinoxidase-Inhibitor	1
Sunscreen	5
Suppository	1
Sweetener	2
Teratogenic	1
Teratologic	1
Termiticide	1

Activity	Chemical Count
Termitifuge	1
Testosteronigenic	1
Thymoprotective	1
TNF-alpha-Inhibitor	4
Topoisomerase-I-Inhibitor	4
Topoisomerase-II-Inhibitor	3
Tranquilizer	2
Trichomonicide	2
Trichomonistat	1
Trypsin-Enhancer	1
Tumorigenic	2
Tyrosinase-Inhibitor	1
Tyrosine-Kinase-Inhibitor	1
Ubiquiot	2
Ulcerogenic	2
Uricosuric	2
Urinary-Acidulant	1
Uterorelaxant	1
Uterosedative	2
Uterotrophic	2

Activity	Chemical Count
Varroacide	1
Vasodilator	11
Vasopressor	2
VEGF-Inhibitor	3
Vermifuge	1
Vulnerary	5
Xanthine-Oxidase-Inhibitor	8