

**Dr. Duke's Phytochemical and Ethnobotanical Database****Biological Activities Found in *Ononis spinosa***

<b>Activity</b>	<b>Chemical Count</b>
11B-HSD-Inhibitor	3
17-beta-hydroxysteroid dehydrogenase-Inhibitor	1
5-Alpha-Reductase-Inhibitor	1
5-Lipoxygenase-Inhibitor	2
Abortifacient	2
ACE-Inhibitor	3
Aldehyde-Oxidase-Inhibitor	1
Aldose-Reductase-Inhibitor	14
Allelochemic	1
Allelopathic	4
Allergenic	6
Alpha-Glucosidase-Inhibitor	1
Alpha-Reductase-Inhibitor	2
Analgesic	8
Anesthetic	3
Anthelmintic	2
Antiacetylcholinesterase	2
AntiADD	1

<b>Activity</b>	<b>Chemical Count</b>
Antiadenovirus	1
Antiaflatoxin	3
Antiaggregant	7
Antiaging	3
Antialcoholic	1
Antiallergenic	1
Antiallergic	6
Antialzheimeran	1
Antianaphylactic	2
Antiangiogenic	5
Antiarrhythmic	6
Antiarthritic	2
Antiasthmatic	4
Antiatherogenic	1
Antiatherosclerotic	2
Antibacillus	1
Antibacterial	22
Antibradiquinic	1
Antibronchitic	2
Anticancer	5

<b>Activity</b>	<b>Chemical Count</b>
Anticancer (Breast)	1
Anticancer (Colon)	1
Anticancer (Forestomach)	1
Anticancer (Liver)	1
Anticancer (Lung)	1
Anticancer (Skin)	1
Anticapillary-Fragility	2
Anticarcinogenic	3
Anticarcinomic	2
Anticarcinomic (Breast)	2
Anticariogenic	2
Anticataract	3
Anticephalagic	2
Anticlastogen	2
Anticlimacteric	1
Anticolitic	1
Anticomplementary	3
AntiCrohn's	1
Anticystitic	1
Antidandruff	2

<b>Activity</b>	<b>Chemical Count</b>
Antidepressant	1
Antidermatic	1
Antidermatitic	4
Antidermatotic	1
Antidiabetic	1
Antidiarrheic	1
Antidysenteric	1
Antidysmenorrheic	1
Antieczemic	1
Antiedemic	1
Antielastase	2
Antiencephalitic	1
Antiendocytotic	1
Antiescherichic	3
Antiestrogenic	5
Antifatigue	1
Antifeedant	5
Antifertility	3
Antifibrinolytic	1
Antifibrosarcomic	1

<b>Activity</b>	<b>Chemical Count</b>
Antiflu	4
Antigastric	1
Antigenotoxic	2
Antigingivitic	1
Antigonadotropic	1
AntiGTF	1
Antihalitosis	1
Antihemolytic	1
Antihemorrhagic	1
Antihepatotic	1
Antihepatotoxic	10
Antiherpetic	8
Antihistaminic	6
AntiHIV	5
Antihydrophobic	1
Antihypertensive	2
Antiichthyosis	1
Antiimplantation	2
Antiinflammatory	24
Antiischemic	3

<b>Activity</b>	<b>Chemical Count</b>
AntiLegionella	1
Antileishmanic	2
Antileukemic	9
Antileukotriene	2
Antilipolytic	1
Antilipoperoxidant	1
Antilisteria	1
Antilymphocytic	1
Antilymphomic	2
Antimalarial	1
Antimelanogenic	1
Antimelanomic	4
Antimetastatic	2
Antimicrobial	1
Antimitogenic	1
Antimitotic	1
AntiMRSA	1
Antimutagenic	14
Antimyocarditic	1
Antineoplastic	1

<b>Activity</b>	<b>Chemical Count</b>
Antinephritic	1
Antineuralgic	2
Antineuroblastomic	1
AntiNF-kB	1
Antinitrosaminic	4
Antinociceptive	5
Antiodontalgic	1
Antioncychomycotic	1
Antiophidic	3
Antiosteoporotic	1
Antioxidant	25
Antipancreatic	1
Antiperiodic	1
Antiperiodontal	1
Antiperiodontic	1
Antiperiodontitic	1
Antiperistaltic	2
Antipermeability	1
Antiperoxidant	6
Antiperoxyinitrite	1

<b>Activity</b>	<b>Chemical Count</b>
Antipharyngitic	1
Antiplateau	2
Antiplasmodial	1
AntiPMS	1
Antipodagric	1
Antipodriac	1
Antipolio	4
Antiproliferant	4
Antiproliferative	2
Antiprostanoid	1
Antiprostataadenomic	2
Antiprostatic	3
Antiprostatotic	1
Antiproteolytic	1
Antipruritic	1
Antipsoriac	2
Antipurpuric	1
Antipyretic	3
Antiradicular	12
Antirenitic	1



<b>Activity</b>	<b>Chemical Count</b>
Antirheumatic	5
Antirhinoviral	1
Antisalmonella	2
Antiseborrheic	1
Antiseptic	9
Antiserotonin	2
Antiserotonic	1
Antisickling	2
Antisinusitic	1
Antispasmodic	13
Antistaphylococcic	5
Antistreptococcic	2
Antistress	1
Antitartar	1
Antithiamin	1
Antithrombic	2
Antithrombogenic	1
Antithyroid	2
AntiTNF	1
Antitrypanosomic	1

<b>Activity</b>	<b>Chemical Count</b>
Antitumor	13
Antitumor (Bladder)	1
Antitumor (brain)	1
Antitumor (Breast)	3
Antitumor (Colon)	4
Antitumor (Forestomach)	1
Antitumor (GI)	2
Antitumor (Kidney)	1
Antitumor (Liver)	1
Antitumor (Lung)	4
Antitumor (Mouth)	1
Antitumor (Ovary)	3
Antitumor (Pancreas)	1
Antitumor (Prostate)	1
Antitumor (Skin)	5
Antitumor (Stomach)	2
Antitumor (Thyroid)	1
Antitumor-Promoter	7
Antitussive	3
Antitympanic	1

<b>Activity</b>	<b>Chemical Count</b>
Antiulcer	4
Antiulcer?	2
Antivaginitic	1
Antiviral	14
Antivulvitic	1
Antiwrinkle	1
Antiyeast	1
Anxiolytic	1
Aphidifuge	2
Apoptotic	8
Aromatase-Inhibitor	5
Artemicide	1
Arteriodilator	1
Ascaricide	1
Astringent	1
ATPase-Inhibitor	1
Bacteristat	2
Beta-Glucuronidase-Inhibitor	2
Bradycardiac	1
Bradycardic	1

<b>Activity</b>	<b>Chemical Count</b>
Bronchodilator	1
Bronchomucolytic	1
Bronchomucotropic	1
Bronchorrhagic	1
Calcium-Antagonist	5
Calcium-Antagonist?	1
Calmodulin-Antagonist	1
cAMP-Inhibitor	1
cAMP-Phosphodiesterase-Inhibitor	3
Cancer-Preventive	23
Candidicide	7
Candidostat	1
Capillarifortificant	1
Capillarigenic	1
Capillariprotective	1
Carcinogenic	5
Cardiac	1
Cardioprotective	2
Cardiotonic	1
Carminative	3

<b>Activity</b>	<b>Chemical Count</b>
Catabolic	1
Catechol-O-Methyltransferase-Inhibitor	1
Chelator	1
Chemopreventive	4
Cholagogue	1
Choleretic	12
Ciliotoxic	1
CNS-Depressant	3
CNS-Stimulant	2
Comedolytic	1
COMT-Inhibitor	2
Congestant	1
Convulsant	1
Copper-Chelator	2
Counterirritant	1
COX-1-Inhibitor	1
COX-2-Inhibitor	4
Cyclooxygenase-Activator	2
Cyclooxygenase-Inhibitor	6
Cytochrome-P450-1A1-Inhibitor	1

<b>Activity</b>	<b>Chemical Count</b>
Cytochrome-P450-1A2-Inhibitor	1
Cytotoxic	7
Decongestant?	1
Deiodinase-Inhibitor	3
Dermatitigenic	4
Detoxicant	1
Diaphoretic	1
Diaphoretic?	3
Differentiator	3
Digestive	1
Diuretic	7
DNA-Protective	1
DOPA-Decarboxylase-Inhibitor	1
Dye	1
Enterorelaxant	1
ER-Beta-Binder	1
Estrogen-Agonist	2
Estrogenic	10
Expectorant	2
Flatulent	2

<b>Activity</b>	<b>Chemical Count</b>
FLavor	3
Floral-Inhibitor	1
Fungicide	15
Fungistat	4
Gastroedative	1
Gastrostimulant	1
Glucosyl-Transferase-Inhibitor	2
Glutathione-Depleting	1
Goitrogenic	1
Gram(+)icide	1
Gram(-)icide	1
Hemolytic	3
Hemostat	3
Hepatomagenic	1
Hepatoprotective	7
Hepatotonic	1
Hepatotoxic	2
Hepatotropic	1
Herbicide	2
Herbicide-Safener	2

<b>Activity</b>	<b>Chemical Count</b>
HIF-1alpha-Inhibitor	1
Histidine-Kinase-Inhibitor	1
HIV-RT-Inhibitor	2
Hyaluronidase-Inhibitor	2
Hydrocholerectic	1
Hypocholesterolemic	9
Hypoglycemic	3
Hypolipidemic	3
Hypotensive	5
ICAM-1-Inhibitor	3
IKK-Inhibitor	2
Immunomodulator	1
Immunostimulant	5
Immunosuppressant	4
iNOS-Inhibitor	4
Inotropic	3
Insecticide	2
Insectifuge	3
Insectiphile	1
Insulin-Sparing	1



<b>Activity</b>	<b>Chemical Count</b>
Insulinogenic	1
Interleukin-6-Inhibitor	1
Iodothyronine-Deiodinase-Inhibitor	2
Irritant	3
JNK-Inhibitor	1
Juvabional	1
Keratolytic	1
Lactagogue	1
Larvostat	1
Laxative	2
Leucocytogenic	1
Lipase-Inhibitor	1
Lipoxygenase-Inhibitor	6
MAO-A-Inhibitor	2
MAO-Inhibitor	5
MAPK-Inhibitor	2
Mast-Cell-Stabilizer	1
MDR-Inhibitor	1
Metal-Chelator	1
Metal-Chelator (Copper)	1

<b>Activity</b>	<b>Chemical Count</b>
Metalloproteinase-Inhibitor	2
MMP-9-Inhibitor	2
Motor-Depressant	1
Musculotropic	1
Mutagenic	4
Myorelaxant	5
NADH-Oxidase-Inhibitor	2
NADH-Ubiquinone-Oxidoreductase-Inhibitor	1
Natriuretic	2
Nematicide	2
NEP-Inhibitor	2
Nephroprotective	1
Nephrotoxic	2
Neurodepressant	1
Neuropathogenic	1
Neuroprotective	2
NF-kB-Inhibitor	3
NO-Inhibitor	4
NO-Synthase-Inhibitor	2
Nociceptive	1

<b>Activity</b>	<b>Chemical Count</b>
Nodulation-Signal	1
Ornithine-Decarboxylase-Inhibitor	5
Ovulant	1
P21-Inducer	1
P450-Inducer	1
P450-Inhibitor	1
PAF-Inhibitor	1
Paralytic	1
Paramecicide	1
Perfumery	2
Peroxidase-Inhibitor	1
Pesticide	28
PGE2-Inhibitor	1
Phagocytotic	2
Phospholipase-Inhibitor	1
Phytoalexin	3
Pituitary-sensitizer	1
PKC-Inhibitor	1
Plasmodicide	1
Polyamine-Synthesis-Inhibitor	1

<b>Activity</b>	<b>Chemical Count</b>
Preservative	1
Progestational	1
Proliferant	2
Prostaglandigenic	4
Prostaglandin-Synthesis-Inhibitor	3
Prostaglandin-Synthetase-Inhibitor	1
Protein-Kinase-C-Inhibitor	3
Protisticide	2
Psychotropic	1
PTK-Inhibitor	4
Quinone-Reductase-Inducer	4
Radioprotective	1
Refrigerant	1
Rubefacient	1
Secretogogue	3
Secretolytic	1
Sedative	3
Spermicide	1
Styptic	1
Succinoxidase-Inhibitor	1

<b>Activity</b>	<b>Chemical Count</b>
Sunscreen	2
Sweetener	2
Sympathomimetic	1
Teratologic	2
Termiticide	1
Thermogenic	1
Thyroid-Peroxidase-Inhibitor	1
Tineacide	1
Tissue-Thromboplastin-Inhibitor	1
TNF-alpha-Inhibitor	4
Topoisomerase-I-Inhibitor	8
Topoisomerase-II-Inhibitor	5
Topoisomerase-II-Poison	1
Transdermal	1
Trichomonicide	1
Trypanosomastat	1
Tumorigenic	1
Tyrosinase-Inhibitor	5
Tyrosine-Kinase-Inhibitor	2
Ubiquiot	5

<b>Activity</b>	<b>Chemical Count</b>
Ulcerogenic	1
Uterosedative	1
Uterotrophic	4
VAM-Simulant	1
VAM-Stimulant	1
Vasodilator	4
Vasopressor	1
VEGF-Inhibitor	4
Vermicide	1
Vermifuge	1
Vibriocide	1
Xanthine-Oxidase-Inhibitor	6