

# Dr. Duke's Phytochemical and Ethnobotanical Databases

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## Chemicals and their Biological Activities in: *Cedrus deodora* LOUD. (Pinaceae) -- Deodar Cedar

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### Chemicals

**(+)-LONGIBORNEOL** *Wood:*

No activity reported.

**8C-METHYL-QUERCETIN** *Stem Bark:*

No activity reported.

**ACETYLDIPENTENE** *Wood 38 ppm;*

No activity reported.

**ALLOHIMACHALOL** *Wood:*

Antispasmodic

**ALPHA-HIMACHALENE** *Wood:*

No activity reported.

**ATLANTONE** *Wood:*

No activity reported.

**BETA-HIMACHALENE** *Wood:*

No activity reported.

**CEDRUSIN** *Wood:*

No activity reported.

**CEDRUSIN-4'-GLUCOSIDE** *Wood:*

No activity reported.

**CEDRUSININ** *Wood:*

No activity reported.

**CENTDAROL** *Wood:*

Antispasmodic *ED50=14.13 uM*

**DEODARDIONE** *Wood:*

No activity reported.

**DEODARIN** *Wood:*

No activity reported.

**DEODARONE Wood:**

No activity reported.

**DEWARIN Wood:**

No activity reported.

**DEWAROL Wood:**

No activity reported.

**HIMACHALOL Wood:**

Antispasmodic  $ED_{50}=1.1 \mu M$ ; Insecticide; Pesticide

**ISOCENTDAROL Wood:**

No activity reported.

**LIMONENE-CARBOXYLIC-ACID Plant:**

No activity reported.

**MESO-SECISOLARICIRESINOL Wood:**

No activity reported.

**P-METHYL-ACETOPHENONE Wood:**

FLavor *FEMA 1-1,000*; Perfumery

**P-METHYL-DELTA-3-TETRAHYDROACETOPHENONE Wood:**

No activity reported.

**PINITOL Leaf:**

Antidiabetic; Antifeedant; Expectorant *FEA*; Insectifuge; Pesticide

**QUERCETIN Stem Bark:**

11B-HSD-Inhibitor; 5-Lipoxygenase-Inhibitor  $IC_{50} (\mu M)=4$ ; Aldehyde-Oxidase-Inhibitor  $IC_{70-96}=10 \mu M$ ; Aldose-Reductase-Inhibitor  $100 \mu M$   $4 \mu g/ml$   $IC_{50}=0.344 \mu M$   $IC_{50}=0.84 \mu g/ml$  cow; Allelochemic  $IC_{82}=1 mM$ ; Allergenic; Analgesic; Antiaflatoxin  $IC_{50}=25 \mu M$   $IC_{50}=7.5 ppm$ ; Antiaggregant  $30 \mu M$   $IC_{50}=55 \mu M$ ; Antiaging; Antiallergic  $IC_{50}=14 \mu M$ ; Antialzheimeran; Antianaphylactic; Antiangiogenic; Antiarthritic; Antiasthmatic; Antiatherosclerotic; Antibacterial; Anticarcinomic (Breast)  $IC_{50}=1.5 \mu M$ ; Anticariogenic  $ID_{50}=120 \mu g/ml$ ; Anticataract; Anticolitic  $400 mg/man/3x/day$ ; Anticomplementary; AntiCrohn's; Anticystitic  $1,000 mg/day/4 weeks$ ; Antidepressant; Antidermatitic; Antidiabetic; Antielastase  $IC_{50}=0.8 \mu g/ml$ ; Antiencephalitic; Antiescherichic; Antiestrogenic; Antifeedant  $IC_{52} < 1,000 ppm$  diet; Antifibrosarcomic; Antiflu; Antigastric; Antigonadotropic; AntiGTF  $ID_{50}=120 \mu g/ml$ ; Antihepatotoxic; Antiherpetic  $48-150 \mu g/ml$ ; Antihistaminic  $IC_{50} < 10 \mu M$ ; AntiHIV; Antihydrophobic; Antihypertensive; Antiinflammatory  $20-150 mg/kg$ ; Antileishmanic  $IC_{50}=64$ ; Antileukemic  $5.5-60 \mu M$   $IC_{50}=10 \mu M$   $IC_{50} > 10 \mu g/ml$ ; Antileukotriene; Antilipoperoxidant  $IC_{67}=50$ ; Antimalarial  $IC_{50}=1-6.4 \mu g/ml$ ; Antimelanomic; Antimetastatic; Antimutagenic  $ID_{50}=0.62 \mu g/ml$   $ID_{50}=2-5 nM$ ; Antimyocarditic; Antinitrosaminic; Antinociceptive; Antioxidant  $4.7 x Vit. E$   $ED_{50}=2.3 \mu M$   $IC_{47}=10 \mu M$   $IC_{96}=300 ppm$ ; Antipancreatic; Antiperiodontal; Antiperistaltic; Antipermeability; Antiperoxidant; Antipharyngitic; Antiplaque; Antiplasmodial  $IC_{50}=13-64$ ; AntiPMS

500 mg/2x/day/wmn; Antipodriac; Antipolio; Antiproliferant 10 nM; Antiprostanoid; Antiprostatic; Antipsoriac; Antiradicular IC50=4.6 uM; Antispasmodic; Antistreptococcic ID50=120 ug/ml; Antithiamin; Antithrombic; Antitrypanosomic IC50=13; Antitumor 10 uM; Antitumor (Bladder); Antitumor (Breast); Antitumor (Colon); Antitumor (Lung); Antitumor (Ovary); Antitumor (Skin) 20 uM; Antitumor-Promoter; Antiulcer; Antiviral 48-150 ug/ml IC50=10 uM; Apoptotic 20-60 uM; ATPase-Inhibitor; Bacteristat 10 mg/ml; Bradycardiac; Calmodulin-Antagonist; cAMP-Phosphodiesterase-Inhibitor; Cancer-Preventive; Candidicide; Capillariprotective; Carcinogenic 40,000 ppm (diet) mus; Catabolic; COMT-Inhibitor; Copper-Chelator; COX-2-Inhibitor <40 uM; Cyclooxygenase-Inhibitor; Cytochrome-P450-1A2-Inhibitor; Cytotoxic ED50=70 ug/ml IC82=100 ug/ml; Deiodinase-Inhibitor; Diaphoretic?; Differentiator 5.5 uM; Estrogenic 10% genistein; Fungicide; Glucosyl-Transferase-Inhibitor ID50=120 ug/ml; Hemostat; Hepatomagenic 5,000 ppm (diet) rat; Hepatoprotective; HIV-RT-Inhibitor IC50=<1 ug/ml; Hypoglycemic 100 mg/kg orl rat; iNOS-Inhibitor IC50=20 uM; Inotropic; Insulinogenic; Juvabional; Larvostat 8,000 ppm diet; Lipoxygenase-Inhibitor IC11=1.25 mM IC50=0.1-5 uM; MAO-A-Inhibitor; Mast-Cell-Stabilizer; Metal-Chelator (Copper); Metalloproteinase-Inhibitor IC50=>42 uM; MMP-9-Inhibitor 20 uM; Mutagenic; NADH-Oxidase-Inhibitor; NEP-Inhibitor IC50=>42 uM; Neuroprotective 5-25 uM; NF-kB-Inhibitor; NO-Inhibitor IC50=20 uM IC>50=125 uM; NO-Synthase-Inhibitor 5-50 uM; Ornithine-Decarboxylase-Inhibitor <10 uM; P450-Inducer 5 uM; P450-Inhibitor 50-100 uM; Pesticide; PGE2-Inhibitor; Phospholipase-Inhibitor; Plasmodicide; Proliferant; Prostaglandin-Synthesis-Inhibitor 40 ug/ml; Protein-Kinase-C-Inhibitor; PTK-Inhibitor 0.4-24 uM; Quinone-Reductase-Inducer 13 uM 6 uM; Teratologic; TNF-alpha-Inhibitor IC50=3.11 uM; Topoisomerase-I-Inhibitor IC50=12.8 ug/ml IC50=42 uM; Topoisomerase-II-Inhibitor IC50=1-6.9 ug/ml IC50=23-40 uM; Tumorigenic 0.1% diet orl rat/yr; Tyrosinase-Inhibitor ID50=70 uM; Tyrosine-Kinase-Inhibitor; Vasodilator; VEGF-Inhibitor; Xanthine-Oxidase-Inhibitor 3.1 uM IC50=10.6 ug/ml IC50=>0.4 ug/ml

**TOXIFOLIN Stem Bark:**

No activity reported.