

Cedrelone

Chemical Properties

CAS No. : 1254-85-9

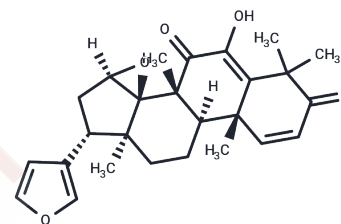
Formula: C₂₆H₃₀O₅

Molecular Weight: 422.51

Storage: Keep away from direct sunlight, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cedrelone is a citrulline analog and a phenazine biosynthesis-like domain protein (PBLD) activator. Cedrelone induces apoptosis in cancer cells. Cedrelone is a very potent inducer of apoptosis, causing cell cycle arrest. Cedrelone has insecticidal activity, inhibiting the growth of arrowhead venom of <i>P. saucia</i> and inhibiting moulting of the milkweed bug (<i>Oncopeltus fasciatus</i>). Cedrelone has insecticidal activity, inhibiting the growth of <i>P. saucia</i> and inhibiting moulting of the milkweed bug (<i>Oncopeltus fasciatus</i>). Cedrelone has antitumor effects and exhibits significant cytotoxicity against cancer cell lines such as -60, SMMC-7721, A-549, MCF-7, and SW480. Cedrelone is a very potent inducer of apoptosis, causing cell cycle arrest. Cedrelone is a very potent inducer of apoptosis, leading to cell cycle arrest.
Targets(IC50)	Apoptosis, MMP, Antifection
In vitro	Cedrelone (1-1000 μ M) is a limonoid isolated from <i>Trichilia catigua</i> (Meliaceae) which is a native Brazilian plant. This study demonstrates that Cedrelone inhibits proliferation, adhesion, migration, and invasion of breast tumor cells from the line MDA-MB-231. The effects of cell migration and invasion on MDA-MB-231 cells may be explained, at least in part, by the ability of Cedrelone to inhibit MMP activity. We also demonstrate that Cedrelone is able to induce apoptosis in MDA-MB-231 cells.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3668 mL	11.834 mL	23.6681 mL
5 mM	0.4734 mL	2.3668 mL	4.7336 mL
10 mM	0.2367 mL	1.1834 mL	2.3668 mL
50 mM	0.0473 mL	0.2367 mL	0.4734 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Fuzer AM, et al. Effects of limonoid cedrelone on MDA-MB-231 breast tumor cells in vitro. *Anticancer Agents Med Chem.* 2013;13(10):1645-1653.

Wu J, Niu Q, Yuan J, et al. Novel compound cedrelone inhibits hepatocellular carcinoma progression via PBLD and Ras/Rap1. *Experimental and Therapeutic Medicine.* 18.6 (2019): 4209-4220

Gopalakrishnan G, et al. Photooxidation of cedrelone, a tetranortriterpenoid from *Toona ciliata*. *Photochem Photobiol.* 2000;72(4):464-466.

Cao Y, et al. Antitumor activity of Cedrelone in temozolomide-resistant human glioma cells is accompanied by mitochondrial mediated apoptosis, inhibition of angiogenesis, cell cycle disruption and modulation of ERK/MAPK signalling pathway. *J BUON.* 2019;24(3):1204-1209.

Wu J, et al. Novel compound cedrelone inhibits hepatocellular carcinoma progression via PBLD and Ras/Rap1. *Exp Ther Med.* 2019;18(6):4209-4220.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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