

Pristimerin

Chemical Properties

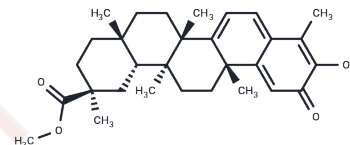
CAS No. : 1258-84-0

Formula: C₃₀H₄₀O₄

Molecular Weight: 464.64

Storage: 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	1. Pristimerin (Celastrol methyl ester) has anticancer activity, treatment with Pristimerin may be a potential strategy for the suppression of hypoxia-induced metastasis through the reversal of hypoxia-induced stem cell characteristics and EMT in cancer cells. 2. Pristimerin down-regulates the expression of pro-inflammatory mediators through blocking of NF-κB activation by inhibiting interconnected ROS/IKK/NF-κB signaling pathways, can effectively inhibit both arthritic inflammation and cartilage and bone damage in the joints.
Targets(IC50)	NF-κB, Antibacterial

Solubility Information

Solubility	DMSO: 11.82 mg/mL (25.44 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1522 mL	10.761 mL	21.522 mL
5 mM	0.4304 mL	2.1522 mL	4.3044 mL
10 mM	0.2152 mL	1.0761 mL	2.1522 mL
50 mM	0.043 mL	0.2152 mL	0.4304 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

Zuo J , Guo Y , Peng X , et al. Inhibitory action of pristimerin on hypoxia-mediated metastasis involves stem cell characteristics and EMT in PC-3 prostate cancer cells[J]. Oncology Reports, 2015, 33(3):1388-94.

Chu Y, Xu Q, Zhou X, et al. Pristimerin inhibits thioredoxin reductase in the treatment of non-small cell lung cancer. Acta Materia Medica. 2024, 3(2): 239-253.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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