

Cirsiliol

Chemical Properties

CAS No. : 34334-69-5

Formula: C₁₇H₁₄O₇

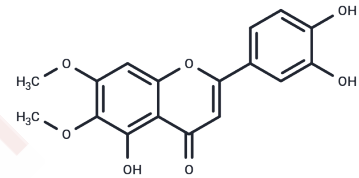
Molecular Weight: 330.29

Storage:

Keep away from direct sunlight, Keep away from moisture, Store under nitrogen

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	Cirsiliol is a 5-lipoxygenase (5-LOX) inhibitor and low affinity benzodiazepine receptor ligand. Cirsiliol inhibits cell proliferation and promotes apoptosis of OS cells. Cirsiliol shows antitumor activity against OS cells in an in situ xenograft tumor model and can be used to study colon cancer.
Targets(IC50)	Apoptosis, Lipoxygenase
In vitro	Cirsiliol (0.01 - 300 μM) causes concentration-dependent relaxation of rat-isolated ileum. Cirsiliol may inhibit Ca ²⁺ influx but stimulates Ca ²⁺ release from intracellular stores.[1] Treatment with Cirsiliol reduces the proliferation of NSCLC cells through the suppression of radiation-induced Notch-1 expression.[2]
In vivo	Cirsiliol can act as promising radiosensitizers that enhance the radiotherapeutic efficacy by inhibiting radiation-induced Notch-1 signaling associated with radioresistance possibly via miR-34a-mediated pathways.[2]

Solubility Information

Solubility	DMSO: 25 mg/mL (75.69 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	3.0276 mL	15.1382 mL	30.2764 mL
5 mM	0.6055 mL	3.0276 mL	6.0553 mL
10 mM	0.3028 mL	1.5138 mL	3.0276 mL
50 mM	0.0606 mL	0.3028 mL	0.6055 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

Mustafa EH, et al. Effects of cirsiol, a flavone isolated from *Achillea fragrantissima*, on rat isolated ileum. *Gen Pharmacol.* 1992 May;23(3):555-60.

Kang J, et al. Rhamnetin and cirsiol induce radiosensitization and inhibition of epithelial-mesenchymal transition (EMT) by miR-34a-mediated suppression of Notch-1 expression in non-small cell lung cancer cell lines. *J Biol Chem.* 2013 Sep 20;288(38):27343-57.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481