

Cirsilineol

Chemical Properties

CAS No. : 41365-32-6

Formula: C₁₈H₁₆O₇

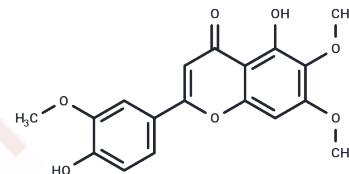
Molecular Weight: 344.32

Storage:

Keep away from direct sunlight, Keep away from moisture

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	Cirsilineol (Eupatrin) is isolated from the herb of <i>Artemisia vestita</i> Wall and shows immunosuppressive, anti-proliferative, and anti-tumor properties. Cirsilineol selectively induces apoptosis via the mitochondrial pathway.
Targets(IC50)	Apoptosis, STAT, COX, IFNAR
In vitro	Cirsilineol (0.1, 1, 10 μM) dose-dependently inhibits single mixed lymphocyte reaction and the proliferation of Concanava A-induced T-cells in Splenocytes. Cirsilineol (1, 5, 10 μM) inhibits IFN-γ-induced Tyr701 phosphorylation of STAT1 and the activation of JAK2 in Splenic CD4+ T cells[3].
In vivo	In female C57BL/6, BALB/c, and DO11.10 transgenic mice with TNBS, Cirsilineol (3-30 mg/kg) reduces inflammatory infiltration, restores the destructive mucosal architecture, and remises edema thus improving the effects on the body weights and survival rate of mice. Cirsilineol ameliorates TNBS-induced Th1-mediated colitis by inhibiting IFN-γ/STAT1/T-bet signaling in CD4+ T cells[1].

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9043 mL	14.5214 mL	29.0428 mL
5 mM	0.5809 mL	2.9043 mL	5.8086 mL
10 mM	0.2904 mL	1.4521 mL	2.9043 mL
50 mM	0.0581 mL	0.2904 mL	0.5809 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

Polatoğlu K, et al. Chemistry and biological activities of *Tanacetum chiliophyllum* var. *oligocephalum* extracts. *J AOAC Int.* 2013 Nov-Dec;96(6):1222-7.

Sheng X, et al. Cirsilineol inhibits proliferation of cancer cells by inducing apoptosis via mitochondrial pathway. *J Pharm Pharmacol.* 2008 Nov;60(11):1523-9.

Yang Sun, et al. Novel immunomodulatory properties of cirsilineol through selective inhibition of IFN-gamma signaling in a murine model of inflammatory bowel disease. *Biochem Pharmacol.* 2010 Jan 15;79(2):229-38.

Hammoud L, et al. A new flavonoid and other constituents from *Centaurea nicaeensis* All. var. *walliana* M. *Nat Prod Res.* 2012;26(3):203-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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