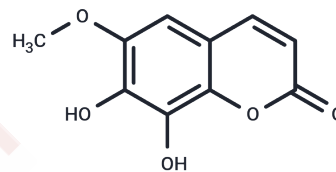


Fraxetin

Chemical Properties

CAS No. :	574-84-5
Formula:	C ₁₀ H ₈ O ₅
Molecular Weight:	208.17
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	Fraxetin (7,8-dihydroxy-6-methoxy coumarin) has dual-antioxidative, hepatoprotective and antihyperglycemic functions, it shows potent protective effects against CCL ₄ induced oxidative stress and hepatic fibrosis, has a marked inhibitory effect on S.aureus proliferation. It increased the level of Nrf2/ARE, and HO-1, inhibit the formation of ROS, cytochrome c release, activation of caspase-3 and 9, and suppressed the up-regulation of Bax.
Targets(IC50)	Apoptosis, Antibacterial

Solubility Information

Solubility	DMSO: 250 mg/mL (1200.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.61 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8038 mL	24.0188 mL	48.0377 mL
5 mM	0.9608 mL	4.8038 mL	9.6075 mL
10 mM	0.4804 mL	2.4019 mL	4.8038 mL
50 mM	0.0961 mL	0.4804 mL	0.9608 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

Wang H, et al. Mol Med Rep. 2014 Nov;10(5):2341-5.

Chen J, Zhou X, Fu L, et al. Natural Product-Based Screening for Lead Compounds Targeting SARS CoV-2 Mpro[J]. Pharmaceuticals, 2023, 16(5): 767..Pharmaceuticals.2023, 16(5): 767.

Weng M, Deng Z, Huang S, et al. Fraxetin inhibits proliferation and induces apoptosis of bladder cancer through the Akt pathway in vitro and in vivo. Journal of Biochemical and Molecular Toxicology. 2023: e23556.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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