

Fraxetin

Chemical Properties

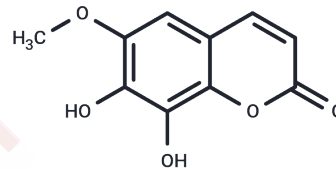
CAS No. : 574-84-5

Formula: C₁₀H₈O₅

Molecular Weight: 208.17

Appearance: no data available

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



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

Solubility Information

Solubility	DMSO: 13 mg/mL (62.45 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	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.

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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