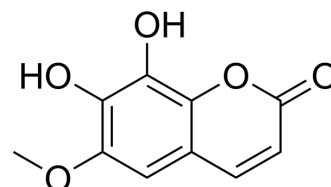


Fraxetin

Cat. No.:	HY-N0580		
CAS No.:	574-84-5		
Molecular Formula:	C ₁₀ H ₈ O ₅		
Molecular Weight:	208.17		
Target:	Apoptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (480.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 25 mg/mL (120.09 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (9.99 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (9.99 mM); Clear solution				
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (9.99 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Fraxetin is isolated from <i>Fraxinus rhynchophylla</i> Hance. Fraxetin has antitumor, anti-oxidation effects and anti-inflammatory effects. Fraxetin induces apoptosis ^[1] .
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CUSTOMER VALIDATION

- Evid Based Complement Alternat Med. 2021 Apr 16;2021:5540139.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Chen X, et al. The therapeutic effect of fraxetin on ethanol-induced hepatic fibrosis by enhancing ethanol metabolism, inhibiting oxidative stress and modulating inflammatory mediators in rats. *Int Immunopharmacol*. 2018 Mar;56:98-104.
- [2]. Liu G, et al. Effect of fraxetin on proliferation and apoptosis in breast cancer cells. *Oncol Lett*. 2017 Dec;14(6):7374-7378.
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Caution: Product has not been fully validated for medical applications. For research use only.

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