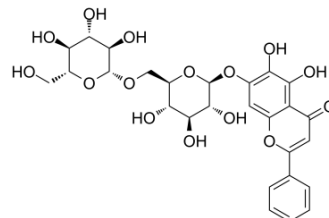


Oroxin B

Cat. No.:	HY-N1435
CAS No.:	114482-86-9
Molecular Formula:	C ₂₇ H ₃₀ O ₁₅
Molecular Weight:	594.52
Target:	Apoptosis; PI3K; PTEN; Autophagy
Pathway:	Apoptosis; PI3K/Akt/mTOR; Autophagy
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (168.20 mM; Need ultrasonic)
H₂O : < 0.1 mg/mL (ultrasonic) (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.6820 mL	8.4101 mL	16.8203 mL
	5 mM	0.3364 mL	1.6820 mL	3.3641 mL
	10 mM	0.1682 mL	0.8410 mL	1.6820 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Oroxin B (OB) is a flavonoid isolated from traditional Chinese herbal medicine *Oroxylum indicum* (L.) Vent. Oroxin B (OB) possesses obvious inhibitory effect and induces early apoptosis rather than late apoptosis on liver cancer cells through upregulation of PTEN, down regulation of COX-2, VEGF, PI3K, and p-AKT^[1]. Oroxin B (OB) selectively induces tumor-suppressive ER stress in malignant lymphoma cells^[2].

REFERENCES

- [1]. Li NN, et al. Evidence for the Involvement of COX-2/VEGF and PTEN/PI3K/AKT Pathway the Mechanism of Oroxin B Treated Liver Cancer. *Pharmacogn Mag.* 2018 Apr-Jun;14(54):207-213.

[2]. Yang P, et al. Oroxin B selectively induces tumor-suppressive ER stress and concurrently inhibits tumor-adaptive ER stress in B-lymphoma cells for effective anti-lymphoma therapy. *Toxicol Appl Pharmacol.* 2015 Oct 15;288(2):269-79.

Caution: Product has not been fully validated for medical applications. For research use only.

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