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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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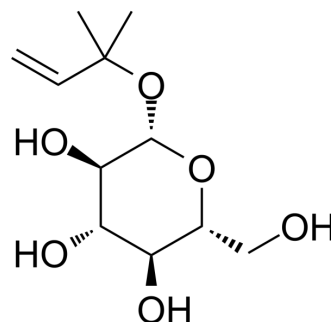
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Crenulatin

Cat. No.:	HY-N7930
CAS No.:	63026-02-8
Molecular Formula:	C ₁₁ H ₂₀ O ₆
Molecular Weight:	248.27
Target:	Others
Pathway:	Others
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 (402.79 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.0279 mL	20.1394 mL	40.2787 mL
	5 mM	0.8056 mL	4.0279 mL	8.0557 mL
	10 mM	0.4028 mL	2.0139 mL	4.0279 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 (10.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (10.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (10.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Crenulatin is a galactotannin that can be isolated from *Rhodiola rosea*. Crenulatin can be used as a biomarker to identify potentially adulterated *R. rosea* products. Crenulatin has dual-direction effects on apoptosis of cerebral microvascular endothelial cells, via regulating Fas/Bcl-2 expression and caspase-3 activity^{[1][2][3]}.

In Vitro

Crenulatin (25 mg/L, 100 mg/L; 24 h) induces apoptosis at 100 mg/L, and inhibits apoptosis at 25 mg/L, in mouse cerebral microvascular endothelial cells (bEnd. 3 cell line), accompanying with caspase-3 expression increases or decrease, respectively^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Marchev AS, et al. Authenticity and quality evaluation of different Rhodiola species and commercial products based on NMR-spectroscopy and HPLC. *Phytochem Anal.* 2020 Nov;31(6):756-769.
- [2]. Qian R, et al. Dual-direction effect of crenulatin on apoptosis of cerebral microvascular endothelial cells and it's mechanism[J]. *Chinese Journal of Pathophysiology*, 2005: 2086-2090.
- [3]. W S Yu, et al. Polyphenols from Rhodiola crenulata. *Planta Med.* 1993 Feb;59(1):80-2.
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Caution: Product has not been fully validated for medical applications. For research use only.

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