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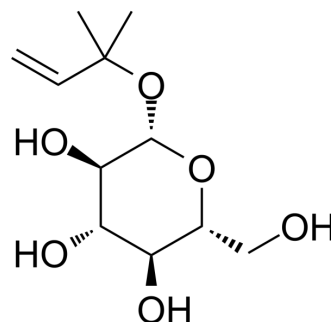
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Crenulatin

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)



BIOLOGICAL ACTIVITY

Description	Crenulatin is a gallotannin that can be isolated from <i>Rhodiola rosea</i> . Crenulatin can be used as a biomarker to identify potentially adulterated <i>R. rosea</i> 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.

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

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