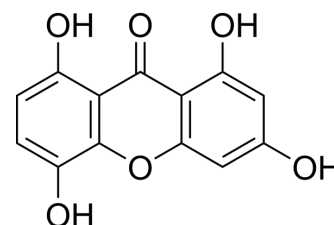


1,3,5,8-Tetrahydroxyxanthone

Cat. No.:	HY-N2050
CAS No.:	2980-32-7
Molecular Formula:	C ₁₃ H ₈ O ₆
Molecular Weight:	260.2
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 (384.32 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		3.8432 mL	19.2160 mL	38.4320 mL
	5 mM		0.7686 mL	3.8432 mL	7.6864 mL
	10 mM		0.3843 mL	1.9216 mL	3.8432 mL

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

BIOLOGICAL ACTIVITY

Description

1,3,5,8-Tetrahydroxyxanthone (Desmethylbellidifolin) is a natural xanthone extracted from *Swertia chirata*. 1,3,5,8-Tetrahydroxyxanthone has antispasmodic effect and anti-inflammatory activity^[1].

In Vitro

1,3,5,8-Tetrahydroxyxanthone (Desmethylbellidifolin) attenuates lipopolysaccharide-induced nitric oxide release and proinflammatory cytokine expression in RAW264.7 cells^[1].

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

In Vivo

1,3,5,8-Tetrahydroxyxanthone (Desmethylbellidifolin; orally; 5, 10, 20 mg/kg; 12 days) can inhibit trinitrobenzenesulfonic acid (TNBS)-induced ulcerative colitis (UC), reducing inflammatory response and alleviate colon muscle spasm^[1].

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

CUSTOMER VALIDATION

- J Med Chem. 2023 Mar 6.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Ni Y, et al. Desmethylbellidifolin From *Gentianella acuta* Ameliorate TNBS-Induced Ulcerative Colitis Through Antispasmodic Effect and Anti-Inflammation. *Front Pharmacol*. 2019 Sep 20;10:1104.

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

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