3'-Hydroxypuerarin

Cat. No.:	HY-N1980
CAS No.:	117060-54-5
Molecular Formula:	$C_{21}H_{20}O_{10}$
Molecular Weight:	432.38
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)
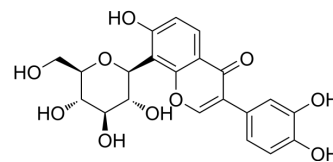
SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (231.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3128 mL	11.5639 mL	23.1278 mL
	5 mM	0.4626 mL	2.3128 mL	4.6256 mL
	10 mM	0.2313 mL	1.1564 mL	2.3128 mL

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

In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
	Solubility: ≥ 2.5 mg/mL (5.78 mM); Clear solution
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
	Solubility: ≥ 2.5 mg/mL (5.78 mM); Clear solution
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil
	Solubility: ≥ 2.5 mg/mL (5.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	3'-Hydroxypuerarin is an isoflavone isolated from the roots of Pueraria lobata (Willd.) Ohwi. 3'-Hydroxypuerarin is a antioxidant, which shows marked ONOO(-), NO•, total ROS scavenging activities[1][2][3].

REFERENCES

[1]. Sun Y, et al. New hepatoprotective isoflavone glucosides from Pueraria lobata (Willd.) Ohwi. Nat Prod Res. 2018 Jul 3:1-8.

[2]. Zhang CL, et al. Comparative study of Puerariae lobatae and Puerariae thomsonii by HPLC-diode array detection-flow injection-chemiluminescence coupled with

HPLC-electrospray ionization-MS. Chem Pharm Bull (Tokyo). 2011;59(5):541-5.

[3]. Jin SE, et al. Anti-inflammatory and antioxidant activities of constituents isolated from Pueraria lobata roots. Arch Pharm Res. 2012 May;35(5):823-37.

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

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