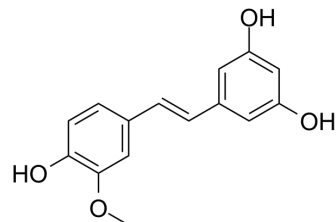


Isorhapontigenin

Cat. No.:	HY-N2593
CAS No.:	32507-66-7
Molecular Formula:	C ₁₅ H ₁₄ O ₄
Molecular Weight:	258.27
Target:	Autophagy
Pathway:	Autophagy
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (193.60 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.8719 mL	19.3596 mL	38.7192 mL
		5 mM		0.7744 mL	3.8719 mL	7.7438 mL
	10 mM		0.3872 mL	1.9360 mL	3.8719 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 (9.68 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (9.68 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Isorhapontigenin, an orally bioavailable dietary polyphenol isolated from the Chinese herb Gnetum cleistostachyum, displays anti-inflammatory effects. Isorhapontigenin induces autophagy and inhibits invasive bladder cancer formation ^{[1][2]} .
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CUSTOMER VALIDATION

- Biomed Res Int. 2021 Sep 9;2021:9066938.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Yeo SCM, et al. Isorhapontigenin, a bioavailable dietary polyphenol, suppresses airway epithelial cell inflammation through a corticosteroid-independent mechanism. *Br J Pharmacol*. 2017 Jul;174(13):2043-2059.
- [2]. Liang Y, et al. SESN2/sestrin 2 induction-mediated autophagy and inhibitory effect of isorhapontigenin (ISO) on human bladder cancers. *Autophagy*. 2016 Aug 2;12(8):1229-39.
- [3]. Jiang G, et al. Isorhapontigenin (ISO) Inhibits Invasive Bladder Cancer Formation In Vivo and Human Bladder Cancer Invasion In Vitro by Targeting STAT1/FOXO1 Axis. *Cancer Prev Res (Phila)*. 2016 Jul;9(7):567-80.
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Caution: Product has not been fully validated for medical applications. For research use only.

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