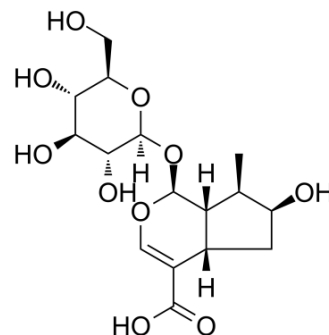


Loganic acid

Cat. No.:	HY-N0513
CAS No.:	22255-40-9
Molecular Formula:	C ₁₆ H ₂₄ O ₁₀
Molecular Weight:	376.36
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 : 50 mg/mL (132.85 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.6570 mL	13.2852 mL	26.5703 mL
	5 mM	0.5314 mL	2.6570 mL	5.3141 mL
	10 mM	0.2657 mL	1.3285 mL	2.6570 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 (6.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.64 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Loganic acid is an iridoid isolated from cornelian cherry fruits. Loganic acid can modulate diet-induced atherosclerosis and redox status. Loganic acid has strong free radical scavenging activity and remarkable cyto-protective effect against heavy metal mediated toxicity^{[1][2]}.

REFERENCES

- [1]. Sozański T, et al. Loganic acid and anthocyanins from cornelian cherry (*Cornus mas* L.) fruits modulate diet-induced atherosclerosis and redox status in rabbits. *Adv Clin Exp Med*. 2018 Nov;27(11):1505-1513.

[2]. Abirami A, et al. Antioxidant and cytoprotective properties of loganic acid isolated from seeds of *Strychnos potatorum* L. against heavy metal induced toxicity in PBMC model. *Drug Chem Toxicol.* 2019 Oct 23:1-11.

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

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