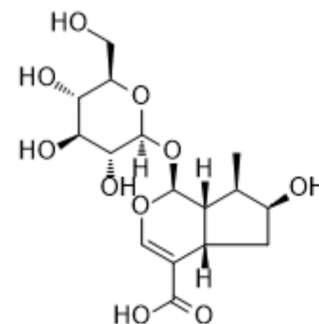


## Loganic acid

Cat. No.:	HY-N0513
CAS No.:	22255-40-9
Molecular Formula:	C <sub>16</sub> H <sub>24</sub> O <sub>10</sub>
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)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		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	1. 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				
	2. 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				
	3. 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 <sup>[1][2]</sup> .
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## 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.

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[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.

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

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