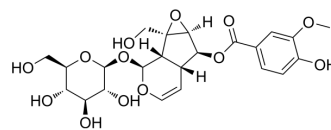


Picroside II

Cat. No.:	HY-N0408
CAS No.:	39012-20-9
Molecular Formula:	C ₂₃ H ₂₈ O ₁₃
Molecular Weight:	512.46
Target:	NF-κB; Reactive Oxygen Species; Apoptosis; Influenza Virus
Pathway:	NF-κB; Immunology/Inflammation; Metabolic Enzyme/Protease; Apoptosis; Anti-infection
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 (195.14 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.9514 mL	9.7569 mL	19.5137 mL
		5 mM		0.3903 mL	1.9514 mL	3.9027 mL
	10 mM		0.1951 mL	0.9757 mL	1.9514 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 (4.88 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.88 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.88 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	<p>Picroside II, an iridoid compound extracted from Picrorhiza, exhibits anti-inflammatory and anti-apoptotic activities. picroside II alleviates the inflammatory response in sepsis and enhances immune function by inhibiting the activation of NLRP3 inflammasome and NF-κB pathways^[1]. Picroside II is an antioxidant, exhibits a significant neuroprotective effect through reducing ROS production and protects the blood-brain barrier (BBB) after cerebral ischemia-reperfusion (CI/R) injury. Picroside II has antioxidant, anti-inflammatory, immune regulatory, anti-virus and other pharmacological activities^[2]</p>
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CUSTOMER VALIDATION

- Eur J Pharmacol. 2024 Mar 15;967:176391.

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REFERENCES

- [1]. Huang Y, et al. Picroside II protects against sepsis via suppressing inflammation in mice. Am J Transl Res. 2016 Dec 15;8(12):5519-5531. eCollection 2016.
- [2]. Zhai L, et al. Picroside II protects the blood-brain barrier by inhibiting the oxidative signaling pathway in cerebral ischemia-reperfusion injury. PLoS One. 2017 Apr 7;12(4):e0174414.
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Caution: Product has not been fully validated for medical applications. For research use only.

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