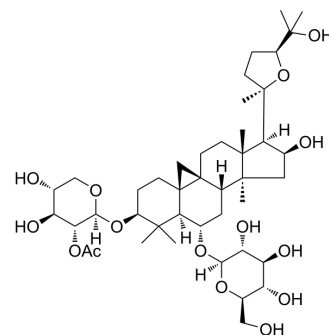


Astragaloside II

Cat. No.:	HY-N0433		
CAS No.:	84676-89-1		
Molecular Formula:	C ₄₃ H ₇₀ O ₁₅		
Molecular Weight:	827.01		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 150 mg/mL (181.38 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.2092 mL	6.0459 mL	12.0918 mL
	5 mM	0.2418 mL	1.2092 mL	2.4184 mL
	10 mM	0.1209 mL	0.6046 mL	1.2092 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 (3.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (3.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Astragaloside II is a natural isolated from Astragalus. IC50 value: Target: In vitro: In vivo: The developed and validated method has been successfully applied to the quantification and pharmacokinetic study of AST II in rats after intravenous and oral administration of AST II. The oral absolute bioavailability (F) of AST II was calculated to be $0.79 \pm 0.16\%$ with an elimination half-life (t_{1/2}) value of 1.92 ± 0.30 h, suggesting its poor absorption and/or strong metabolism in vivo [1].

CUSTOMER VALIDATION

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- Am J Transl Res. 2019 Nov 15;11(11):7074-7083.

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REFERENCES

- [1]. Kong XH, et al. Astragaloside II induces osteogenic activities of osteoblasts through the bone morphogenetic protein-2/MAPK and Smad1/5/8 pathways. *Int J Mol Med.* 2012 Jun;29(6):1090-8.
- [2]. Huang C, et al. Reversal of P-glycoprotein-mediated multidrug resistance of human hepatic cancer cells by Astragaloside II. *J Pharm Pharmacol.* 2012 Dec;64(12):1741-50.
- [3]. Chun-ping Wan, et al. Astragaloside II triggers T cell activation through regulation of CD45 protein tyrosine phosphatase activity. *Acta Pharmacol Sin.* 2013 Apr;34(4):522-30.
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Caution: Product has not been fully validated for medical applications. For research use only.

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