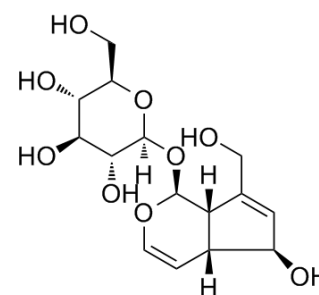


Aucubin

Cat. No.:	HY-N0664		
CAS No.:	479-98-1		
Molecular Formula:	C ₁₅ H ₂₂ O ₉		
Molecular Weight:	346.33		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 31 mg/mL (89.51 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.8874 mL	14.4371 mL	28.8742 mL
	5 mM		0.5775 mL	2.8874 mL	5.7748 mL
	10 mM		0.2887 mL	1.4437 mL	2.8874 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Aucubin is an iridoid glycoside with a wide range of biological activities, including anti-inflammatory, anti-microbial, anti-algesic as well as anti-tumor activities. IC₅₀ value: Target: In vitro: Aucubin promotes neuronal differentiation and neurite outgrowth in neural stem cells cultured primarily from the rat embryonic hippocampus [1]. Aucubin significantly reversed the elevated gene and protein expression of MMP-3, MMP-9, MMP-13, iNOS, COX-2 and the production of NO induced by IL-1β challenge in rat chondrocytes [2]. In vivo:

REFERENCES

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- [2]. Xue B, et al. Pharmacokinetics and tissue distribution of Aucubin, Ajugol and Catalpol in rats using a validated simultaneous LC-ESI-MS/MS assay. *J*

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[3]. Shirley KP, et al. In Vitro Effects of Plantago Major Extract, Aucubin, and Baicalein on Candida Albicans Biofilm Formation, Metabolic Activity, and Cell Surface Hydrophobicity. J Prosthodont. 2015 Nov 30.

[4]. Yong Min Kim, et al. Aucubin Promotes Neurite Outgrowth in Neural Stem Cells and Axonal Regeneration in Sciatic Nerves. Exp Neurobiol. 2014 Sep; 23(3): 238–245.

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

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