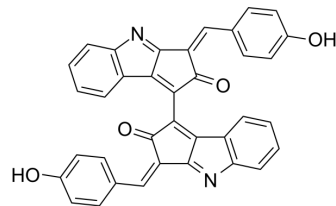


Scytonemin

Cat. No.:	HY-112356		
CAS No.:	152075-98-4		
Molecular Formula:	C ₃₆ H ₂₀ N ₂ O ₄		
Molecular Weight:	544.56		
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 : 5.56 mg/mL (10.21 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8363 mL	9.1817 mL	18.3634 mL
	5 mM	0.3673 mL	1.8363 mL	3.6727 mL
	10 mM	0.1836 mL	0.9182 mL	1.8363 mL

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

BIOLOGICAL ACTIVITY

Description

Scytonemin is an ultraviolet sunscreen pigment, that can be isolated from the sheaths of cyanobacteria. Scytonemin displays multiple roles, functioning as a potent UV sunscreen and antioxidant molecules, and can be exploited in cosmetic and other industries for the development of new cosmeceuticals^[1].

REFERENCES

- [1]. Proteau PJ, et al. The structure of scytonemin, an ultraviolet sunscreen pigment from the sheaths of cyanobacteria. *Experientia*. 1993 Sep 15;49(9):825-9.
- [2]. Rastogi RP, et al. Cyanobacterial Sunscreen Scytonemin: Role in Photoprotection and Biomedical Research. *Appl Biochem Biotechnol*. 2015 Jul;176(6):1551-63.

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

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