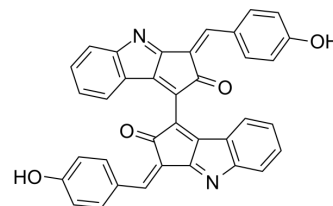


## Scytonemin

Cat. No.:	HY-112356
CAS No.:	152075-98-4
Molecular Formula:	C <sub>36</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	544.56
Target:	Others
Pathway:	Others
Storage:	<div> <div>Powder</div> <div> -20°C 3 years 4°C 2 years </div> </div> <div> <div>In solvent</div> <div> -80°C 6 months -20°C 1 month </div> </div>



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 5 mg/mL (9.18 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	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	---	---	---

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<sup>[1]</sup>.

### 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.

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

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