

## Product Data Sheet

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Product Name: Scytonemin

Cat. No.: GC70339

### Chemical Properties

Cas. No. 152075-98-4

Formula  $C_{36}H_{20}N_2O_4$  M.Wt 544.56

Solubility DMSO : 5 mg/mL (9.18 mM);  
ultrasonic and warming and heat to  
60°C; Hygroscopic DMSO has a  
significant impact on the solubility of  
product, please use newly opened  
DMSO)

Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

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

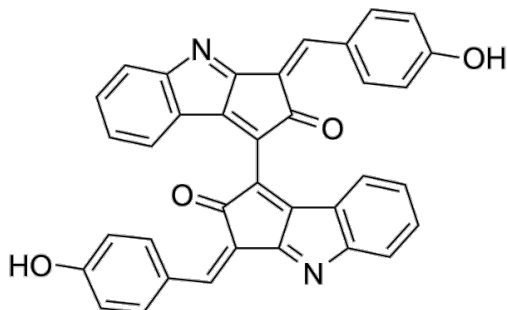
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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Structure



### Background

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.

### 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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