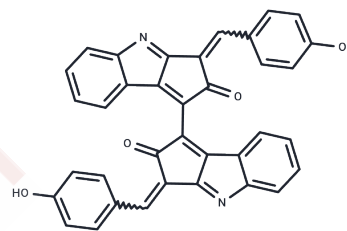


## Scytonemin

## Chemical Properties

CAS No. :	152075-98-4
Formula:	C <sub>36</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	544.55
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Scytonemin is a biological pigment synthesized by many strains of cyanobacteria, including <i>Calothrix</i> sp., <i>Lyngbya aestuarii</i> , and others. Scytonemin is also a potent PKL1 inhibitor, which inhibits cell proliferation and arrests cell cycle through downregulating Plk1 activity in many cancer cells. Scytonemin was able to inhibit the proliferation of three myeloma cells in a dose-dependent manner, while U266 was the most sensitive one to scytonemin. Scytonemin, representing a novel Plk1 inhibitor, induced the inhibition of cell growth and cell cycle arrest in multiple myeloma cells by specifically decreasing Plk1 activity.
Targets(IC50)	Apoptosis,Others,Reactive Oxygen Species,PLK

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8364 mL	9.1819 mL	18.3638 mL
5 mM	0.3673 mL	1.8364 mL	3.6728 mL
10 mM	0.1836 mL	0.9182 mL	1.8364 mL
50 mM	0.0367 mL	0.1836 mL	0.3673 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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