

## Myriocin

## Chemical Properties

CAS No. : 35891-70-4

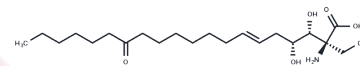
Formula: C<sub>21</sub>H<sub>39</sub>N<sub>1</sub>O<sub>6</sub>

Molecular Weight: 401.54

Store at low temperature

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	Myriocin (Thermozymocidin), a metabolite derived from Myriococcum albomyces, is a serine-palmitoyltransferase (SPT) inhibitor with potential antitumour, anticancer, and antiparasitic activities. Myriocin inhibits tumour growth by regulating macrophage polarisation and function through the PI3K/Akt/mTOR pathway. Myriocin inhibits HCV infection and can be used in the study of neurological diseases. Myriocin inhibits HCV infection and can be used to study neuropathy and fungal infections.
Targets(IC50)	HCV Protease, Antibiotic, Antifungal

## Solubility Information

Solubility	DMSO: 1 mg/mL (2.49 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4904 mL	12.4521 mL	24.9041 mL
5 mM	0.4981 mL	2.4904 mL	4.9808 mL
10 mM	0.249 mL	1.2452 mL	2.4904 mL
50 mM	0.0498 mL	0.249 mL	0.4981 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.

### Reference

He Q, et al. Inhibition of serine palmitoyltransferase by myriocin, a natural mycotoxin, causes induction of c-myc in mouse liver. *Mycopathologia*. 2004 Apr;157(3):339-47.

Amemiya F, et al. Targeting lipid metabolism in the treatment of hepatitis C virus infection. *J Infect Dis*. 2008 Feb 1; 197(3):361-70.

Ciesek S, et al. The suppressive effect that myriocin has on hepatitis C virus RNA replication is independent of inhibition of serine palmitoyl transferase. *J Infect Dis*. 2008 Oct 1;198(7):1091-3.

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