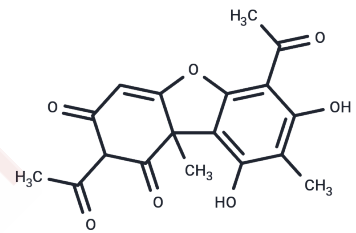


## Usnic Acid

## Chemical Properties

CAS No. :	125-46-2
Formula:	C <sub>18</sub> H <sub>16</sub> O <sub>7</sub>
Molecular Weight:	344.32
Storage:	Store under nitrogen Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Usnic Acid (Usniacin) is an antimicrobial, antitumor and enzyme inhibiting agent shown to uncouple oxidative phosphorylation in mouse-liver mitochondria. Usnic acid induces necrosis in certain cells.
Targets(IC50)	Apoptosis, Antibacterial, Autophagy, DNA/RNA Synthesis

## Solubility Information

Solubility	DMSO: 3.31 mg/mL (9.61 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	2.9043 mL	14.5214 mL	29.0428 mL
5 mM	0.5809 mL	2.9043 mL	5.8086 mL
10 mM	0.2904 mL	1.4521 mL	2.9043 mL
50 mM	0.0581 mL	0.2904 mL	0.5809 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

Su ZQ, et al. Int Immunopharmacol. 2014 Oct;22(2):371-8.

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