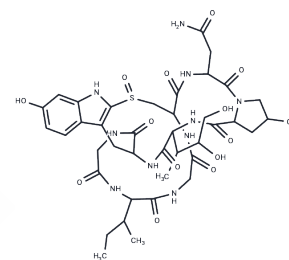


## alpha-Amanitin

## Chemical Properties

CAS No. :	23109-05-9
Formula:	C39H54N10O14S
Molecular Weight:	918.97
Storage:	Store at low temperature,Keep away from direct sunlight Powder: -20°C for 3 years Actual storage temperature shall be subject to the COA.



## Biological Description

Description	alpha-Amanitin (alpha-Amanitin) is the lethal toxin in <i>Trichoderma viride</i> and acts in vivo via the enterohepatic circulation and transport system. alpha-Amanitin induces cell death and can be used in the synthesis of ADCs. alpha-Amanitin has been shown to induce cell death and can be used in the synthesis of ADCs.
Targets(IC50)	ADC Cytotoxin,DNA/RNA Synthesis
In vitro	alpha-Amanitin, an RNA polymerase II (RNAPII) inhibitor, effectively inhibited DTCs by suppressing TAF15 expression, which binds to RNA to modulate transcription and RNA processing[2].
In vivo	Sequential administration of alpha-Amanitin (0.4 mg/kg, ip) and cisplatin prolonged the overall survival of cancer recurrence in murine models (i.e., peritoneal carcinomatosis) [2].

## Solubility Information

Solubility	H2O: 80 mg/mL (87.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.0882 mL	5.4409 mL	10.8817 mL
5 mM	0.2176 mL	1.0882 mL	2.1763 mL
10 mM	0.1088 mL	0.5441 mL	1.0882 mL
50 mM	0.0218 mL	0.1088 mL	0.2176 mL

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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

Zhao J, et al. Pathological effects of the mushroom toxin alpha-amanitin on BALB/c mice. *Peptides*. 2006 Dec;27(12):3047-3052.

Kume K, et al.  $\alpha$ -Amanitin Restrains Cancer Relapse from Drug-Tolerant Cell Subpopulations via TAF15. *Sci Rep*. 2016 May 16;6:25895

Kaya E, et al. Evaluation and comparison of alpha- and beta-amanitin toxicity on MCF-7 cell line. *Turk J Med Sci*. 2014;44(5):728-32

Park MW, et al. RNA Polymerase II Inhibitor,  $\alpha$ -Amanitin, Affects Gene Expression for Gap Junctions and Metabolic Capabilities of Cumulus Cells, but Not Oocyte, during in vitro Mouse Oocyte Maturation. *Dev Reprod*. 2013 Mar;17(1):63-72

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