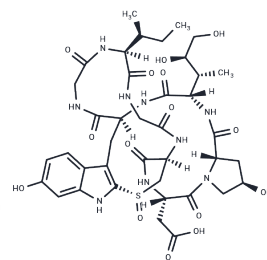


$\beta$ -Amanitin

## Chemical Properties

CAS No. :	21150-22-1
Formula:	C <sub>39</sub> H <sub>53</sub> N <sub>9</sub> O <sub>15</sub> S
Molecular Weight:	919.96
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	$\beta$ -Amanitin, a cyclic peptide toxin found in the poisonous Amanita phalloides mushroom, inhibits eukaryotic RNA polymerase II and III, thereby disrupting protein synthesis.
Targets(IC50)	ADC Cytotoxin, DNA/RNA Synthesis
In vitro	In MCF-7 cells, $\beta$ -Amanitin (0.01-100 $\mu$ g/mL; 36 hours) shows toxicity, and the rates of cell viability are calculated as 52%, 62%, 84%, 86%, and 91% at concentrations of 100, 10, 1, 0.1, and 0.01 $\mu$ g/mL, respectively[2]. In MCF-7 cells, $\beta$ -Amanitin shows a great inhibition of protein synthesis at both concentrations (10 $\mu$ g/mL and 1 $\mu$ g/mL) for 24 hours[2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.087 mL	5.435 mL	10.870 mL
5 mM	0.2174 mL	1.087 mL	2.174 mL
10 mM	0.1087 mL	0.5435 mL	1.087 mL
50 mM	0.0217 mL	0.1087 mL	0.2174 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

- 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.
- Lutz C, et al. Alpha- and Beta-Amanitin Total Synthesis. Angew Chem Int Ed Engl. 2020 Feb 24.

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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481