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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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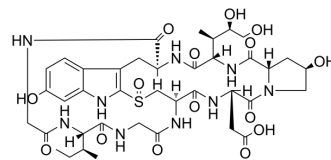
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β-Amanitin

Cat. No.:	HY-125586
CAS No.:	21150-22-1
Molecular Formula:	C ₃₉ H ₅₃ N ₉ O ₁₅ S
Molecular Weight:	919.95
Target:	DNA/RNA Synthesis; ADC Cytotoxin
Pathway:	Cell Cycle/DNA Damage; Antibody-drug Conjugate/ADC Related
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	β-Amanitin is a cyclic peptide toxin in the poisonous Amanita phalloides mushroom. β-Amanitin inhibits eukaryotic RNA polymerase II and III. β-Amanitin inhibits protein synthesis. β-Amanitin can be used as a cytotoxic component of antibody-drug conjugates (ADCs) ^{[1][2]} .	
IC ₅₀ & Target	Traditional Cytotoxic Agents	
In Vitro	β-Amanitin (0.01-100 µg/mL; 36 hours) shows toxicity in MCF-7 cells, 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 µg/mL, respectively^[2]. β-Amanitin shows a great inhibition of protein synthesis at both concentrations (10 µg/mL and 1 µg/mL) in MCF-7 cells for 24 hours^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay^[2]	
	Cell Line:	MCF-7 cells
	Concentration:	0.01, 0.1, 1, 10, 100 µg/mL
	Incubation Time:	36 hours
	Result:	Showed toxicity in MCF-7 cells.

REFERENCES

- [1]. 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.
- [2]. Lutz C, et al. Alpha- and Beta-Amanitin Total Synthesis. Angew Chem Int Ed Engl. 2020 Feb 24.

Caution: Product has not been fully validated for medical applications. For research use only.

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