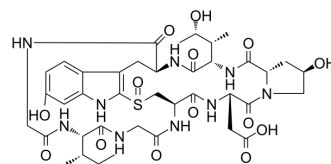


ε-Amanitin

Cat. No.:	HY-131083
CAS No.:	21705-02-2
Molecular Formula:	C ₃₉ H ₅₃ N ₉ O ₁₄ S
Molecular Weight:	903.96
Target:	DNA/RNA Synthesis; ADC Cytotoxin
Pathway:	Cell Cycle/DNA Damage; Antibody-drug Conjugate/ADC Related
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ε-Amanitin, a cyclic peptide isolated from a variety of mushroom species, potently binds to and inhibits the activity of RNA polymerase II ^{[1][2]} .
IC₅₀ & Target	Traditional Cytotoxic Agents
In Vitro	Amatoxin Family includes alpha-Amanitin, beta-Amanitin, gamma-Amanitin, epsilon-Amanitin (ε-Amanitin), Amanullin, Amanullinic acid, Amaninamide, Amanin and Proamanullin. Amatoxins are potent and selective inhibitors of RNA polymerase II, a vital enzyme in the synthesis of messenger RNA (mRNA), microRNA, and small nuclear RNA (snRNA). By inhibiting the synthesis of mRNA, Amatoxins thereby stop cell metabolism by inhibiting transcription and protein biosynthesis, which results in cellular apoptosis. Consequently Amatoxins stop cell growth and proliferation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Jan Grunewald, et al. Amatoxin derivatives and conjugates thereof as inhibitors of rna polymerase. WO2016071856A1.
- [2]. Kaya E, et al. Amanitin and phallotoxin concentration in Amanita phalloides var. alba mushroom. Toxicon. 2013;76:225-233.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA