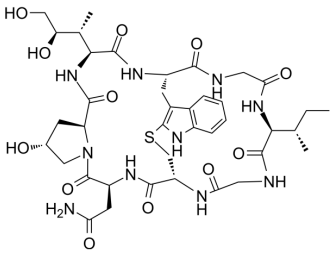
Dideoxy-amanitin

Cat. No.:	HY-148231
CAS No.:	58255-46-2
Molecular Formula:	$C_{39}H_{54}N_{10}O_{12}S$
Molecular Weight:	886.97
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

Dideoxy-amanitin (compound 2), an α-Amanitin (HY-19610) derivative, is a potent and selective RNA polymerase II allosteric inhibitor with an IC_{50} value of 74.2 nM[1].

In Vitro

Dideoxy-amanitin (compound 2; 0.078-20 μM; 24 h) has cell cytotoxicity in CHO (Chinese hamster ovary) cells with an IC_{50} value of 0.3 μM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	CHO (Chinese hamster ovary) cells
Concentration:	0.078-20 μM
Incubation Time:	24 hours
Result:	Decreased cell proliferation in a dose-depengdent manner.

REFERENCES

[1]. Matinkhoo K, et, al. Design, Synthesis, and Biochemical Evaluation of Alpha-Amanitin Derivatives Containing Analogs of the trans-Hydroxyproline Residue for Potential Use in Antibody-Drug Conjugates. Chemistry. 2021 Jul 16;27(40):10282-10292.

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