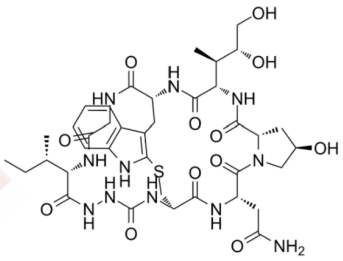
Data Sheet (Cat.No.T74630)

TargetMol

RNA polymerase II-IN-1

Chemical Properties



CAS No. : 2891451-07-1

Formula: C38H53N11O12S

Molecular Weight: 887.96

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	RNA polymerase II-IN-1 (compound 19iv), an amatoxin, selectively inhibits RNA polymerase II (Pol II) with an IC50 of 36.66 nM and exhibits heightened cytotoxicity towards cancer cells while reducing toxicity in normal cells compared to α-Amanitin [1].
Targets(IC50)	DNA/RNA Synthesis
In vitro	RNA polymerase II-IN-1 (compound 19iv) demonstrates cytotoxic effects on CHO, HEK293, and HeLa cell lines, exhibiting IC50 values of 0.19 μM, 0.20 μM, and 3.32 μM, respectively. Compared to α-Amanitin, it shows reduced toxicity in HepG2 cells, with an IC50 of 5.6 μM, which is 2.7-fold lower [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1262 mL	5.6309 mL	11.2618 mL
5 mM	0.2252 mL	1.1262 mL	2.2524 mL
10 mM	0.1126 mL	0.5631 mL	1.1262 mL
50 mM	0.0225 mL	0.1126 mL	0.2252 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

Todorovic M, et al. Rationally Designed Amanitins Achieve Enhanced Cytotoxicity. J Med Chem. 2022 Aug 11;65 (15):10357-10376.

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