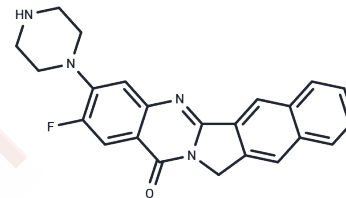


## Topoisomerase I inhibitor 4

## Chemical Properties

CAS No. :	2485135-31-5
Formula:	C <sub>23</sub> H <sub>19</sub> N <sub>2</sub> O
Molecular Weight:	386.42
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	Topoisomerase I inhibitor 4 (compound 7a) is a potent inhibitor of topoisomerase I activity, effectively inhibiting the proliferation of various cancer cell lines, including HepG2, A549, MCF-7, and HeLa, with IC <sub>50</sub> values of 1.20 μM, 2.09 μM, 1.56 μM, and 1.92 μM, respectively. Thus, Topoisomerase I inhibitor 4 holds promise for cancer research applications [1].
Targets(IC <sub>50</sub> )	Others,Topoisomerase
In vitro	Topoisomerase I inhibitor 4, at concentrations ranging from 1-80 μM, demonstrates Top1 inhibitory activity, while at a dosage of 0-40 μM over 48 hours, it restricts the proliferation of various cancer cell lines, including HepG2, A549, MCF-7, and HeLa. The Cell Proliferation Assay reveals that this compound exhibits significant antiproliferative effects on these cells, with IC <sub>50</sub> values of 1.20 μM for HepG2, 2.09 μM for A549, 1.56 μM for MCF-7, and 1.92 μM for HeLa, respectively.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5879 mL	12.9393 mL	25.8786 mL
5 mM	0.5176 mL	2.5879 mL	5.1757 mL
10 mM	0.2588 mL	1.2939 mL	2.5879 mL
50 mM	0.0518 mL	0.2588 mL	0.5176 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.

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

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

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