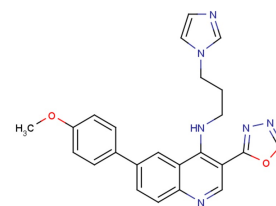


Top1 inhibitor 1

Chemical Properties

CAS No.:	2302772-05-8
Formula:	C ₂₄ H ₂₂ N ₆ O ₂
Molecular Weight:	426.47
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Top1 inhibitor 1 is a potent inhibitor of human topoisomerase I (Top1)(IC ₅₀ : 29 nM).
Targets(IC ₅₀)	human topoisomerase I: 29 nM
In vitro	Top1 inhibitor 1 reveals cytotoxicity in cancerous cells including MCF7 with IC ₅₀ of 2.74 μM, HeLa with IC ₅₀ of 2.61 μM, HCT116 with IC ₅₀ of 2.34 μM, NIH: OVCAR-3 (IC ₅₀ : 2.35 μM) cells compared to the non-cancerous cells like HEK293 (IC ₅₀ : 8.34 μM) .

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.345 mL	11.724 mL	23.448 mL
5 mM	0.469 mL	2.345 mL	4.69 mL
10 mM	0.234 mL	1.172 mL	2.345 mL
50 mM	0.047 mL	0.234 mL	0.469 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Kundu B, et al. Discovery and Mechanistic Study of Tailor-Made Quinoline Derivatives as Topoisomerase 1 Poison with Potent Anticancer Activity. J Med Chem. 2019 Apr 11; 62(7):3428-3446.

Inhibitors · Natural Compounds · Compound Libraries

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