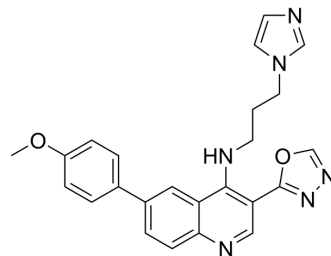


## Top1 inhibitor 1

Cat. No.:	HY-126142
CAS No.:	2302772-05-8
Molecular Formula:	C <sub>24</sub> H <sub>22</sub> N <sub>6</sub> O <sub>2</sub>
Molecular Weight:	426.47
Target:	Topoisomerase; 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	Top1 inhibitor 1 (compound 28) is a potent human topoisomerase I (Top1) inhibitor with an IC <sub>50</sub> value of 29 nM <sup>[1]</sup> .
IC <sub>50</sub> & Target	Camptothecins
In Vitro	Top1 inhibitor 1 reveals cytotoxicity in cancerous cells including MCF7 (IC <sub>50</sub> : 2.74 μM), HeLa (IC <sub>50</sub> : 2.61 μM), HCT116 (IC <sub>50</sub> : 2.34 μM), NIH: OVCAR-3 (IC <sub>50</sub> : 2.35 μM) cells compared to the non-cancerous cells like HEK293 (IC <sub>50</sub> : 8.34 μM) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[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.

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

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