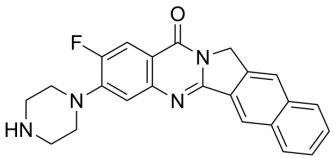
Topoisomerase I inhibitor 4

Cat. No.:	HY-143301
CAS No.:	2485135-31-5
Molecular Formula:	$C_{23}H_{19}FN_4O$
Molecular Weight:	386.42
Target:	Topoisomerase
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Topoisomerase I inhibitor 4 (compound 7a) is a topoisomerase I inhibitor. Topoisomerase I inhibitor 4 inhibits HepG2, A549, MCF-7 and HeLa cancer cells proliferation with IC_{50}s of 1.20, 2.09, 1.56 and 1.92 μM, respectively. Topoisomerase I inhibitor 4 can be used for the research of cancer[1].
IC_{50} & Target	IC50: 1.20 μM (HepG2), 2.09 μM (A549), 1.56 μM (MCF-7), 1.92 μM (HeLa)[1]
In Vitro	Topoisomerase I inhibitor 4 (1-80 μM) shows Top1 inhibitory activity[1]. Topoisomerase I inhibitor 4 (0-40 μM; 48 h) inhibits proliferation of cancer cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	HepG2, A549, MCF-7 and HeLa cell lines
Concentration:	0-40 μM
Incubation Time:	48 hours
Result:	Showed antiproliferative activities to HepG2, A549, MCF-7 and HeLa cells with IC_{50}s of 1.20, 2.09, 1.56 and 1.92 μM, respectively.

REFERENCES

[1]. Xiang, Y, et al. Design, synthesis, and anticancer activities of 8,9-substituted Luotonin A analogs as novel topoisomerase I inhibitors. Med Chem Res 30, 1512–1522 (2021).

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