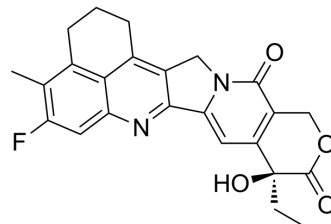


Topoisomerase I inhibitor 8

Cat. No.:	HY-148058
CAS No.:	210346-40-0
Molecular Formula:	C ₂₄ H ₂₁ FN ₂ O ₄
Molecular Weight:	420.43
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 8 is a potent topoisomerase I inhibitor. Topoisomerase I inhibitor 8 is a hexacyclic analogue of camptothecin, and displays cytotoxic effect against tumor cells ^[1] .
IC₅₀ & Target	Topoisomerase I
In Vitro	Topoisomerase I inhibitor 8 (compound 57) shows antitumor activities against three cell line cultures with IC ₅₀ s of 0.22 ng/mL (P388), 2.06 ng/mL (HOC-21), 0.17 ng/mL (QG-56), respectively ^[1] . Topoisomerase I inhibitor 8 results the change in DNA from the supercoiled form to the relaxed form in the presence of topoisomerase I, shows stronger effective than SN-38 (HY-13704), with IC ₅₀ of compound/IC ₅₀ of SN-38=0.51 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sugimori M, et al. Synthesis and antitumor activity of ring A- and F-modified hexacyclic camptothecin analogues. J Med Chem. 1998 Jun 18;41(13):2308-18.

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

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