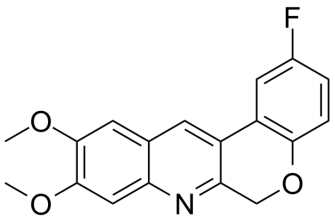
Topoisomerase I inhibitor 3

Cat. No.:	HY-143266
CAS No.:	2588211-50-9
Molecular Formula:	$C_{18}H_{14}FNO_3$
Molecular Weight:	311.31
Target:	Topoisomerase; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Topoisomerase I inhibitor 3 (Compound ZML-14) is a topoisomerase I inhibitor and can interact with topoisomerase I-DNA complex. Topoisomerase I inhibitor 3 induces HepG2 cell apoptosis and arrests cell cycle at G2/M phase[1].
IC_{50} & Target	Topoisomerase I
In Vitro	Topoisomerase I inhibitor 3 (Compound ZML-14) shows cytotoxicity with IC_{50} values of 1.94 ± 0.09, 10.32 ± 0.39, 13.1 ± 0.96, 40.69 ± 5.36, 28.11 ± 2.50, >100 and 37.42 ± 2.05 μM against HepG2, A2780, HeLa, HCT116, SW1990, MCF7 and L-02 cells, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhou Y, et al. Design and synthesis of Aza-boeravinone derivatives as potential novel topoisomerase I inhibitors. Bioorg Chem. 2022 May;122:105747.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA