

Topoisomerase I inhibitor 12

Chemical Properties

CAS No. :

Formula: C₂₃H₂₂N₄O₃

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Topoisomerase I inhibitor 12 (compound 12) is a Camptothecin-derived compound and serves as a potent inhibitor of Topoisomerase I (Topoisomerase I). This compound exhibits anticancer properties.
Targets(IC ₅₀)	Topoisomerase
In vitro	Topoisomerase I inhibitor 12 (compound 12) exhibits moderate antiproliferative activity against the MDA-MB-231, DU-145, HCT-116, SKOV-3, and SAOS-2 cancer cell lines, with IC ₅₀ values of 5.96±0.03, 3.81±1.37, 3.67±0.21, 3.48±1.02, and 3.20±0.21 μM, respectively. It shows potent activity against the HOS (osteosarcoma) cancer cell line (IC ₅₀ =1.47 μM) and demonstrates 2.89-fold selectivity towards cancer cells compared to normal fibroblast cells (BJ1) (IC ₅₀ =4.25 μM).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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