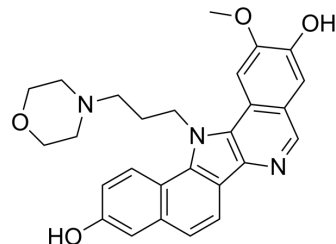


## Topoisomerase I inhibitor 16

Cat. No.:	HY-161385
Molecular Formula:	C <sub>27</sub> H <sub>27</sub> N <sub>3</sub> O <sub>4</sub>
Molecular Weight:	457.52
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 21 (Compound 3e) is an inhibitor for Topoisomerase I through stabilization of enzyme-DNA complex. Topoisomerase I inhibitor 21 exhibits antiproliferative activity in 39 human cancer cells (JFCR39) with mean GI <sub>50</sub> 39 nM <sup>[1]</sup> .
IC <sub>50</sub> & Target	Topoisomerase I
In Vitro	Topoisomerase I inhibitor 21 inhibits proliferations of cancer cells MCF7, U251, HCT-166, A549, LOX-IMVI, SK-OV-3, ACHN, MKN28 and DU145, with EC <sub>50</sub> s <50 nM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Sakai K, et al., Design, synthesis, and biological evaluation of novel benzo[6,7]indolo[3,4-c]isoquinolines as anticancer agents with topoisomerase I inhibition. Bioorg Med Chem Lett. 2024 Mar 20:129710.

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

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