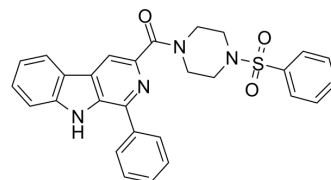


DNA topoisomerase II inhibitor 1

Cat. No.:	HY-146227
CAS No.:	2459950-15-1
Molecular Formula:	C ₂₈ H ₂₄ N ₄ O ₃ S
Molecular Weight:	496.58
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	DNA topoisomerase II inhibitor 1 (compound 8ed) is a potent DNA topoisomerase II inhibitor. DNA topoisomerase II inhibitor 1 shows anti-proliferative activity. DNA topoisomerase II inhibitor 1 induces apoptosis and cell cycle arrest at sub G1 phase [1].
In Vitro	DNA topoisomerase II inhibitor 1 (compound 8ed) (0-10 μM; 48 h) shows cytotoxic activity with IC ₅₀ s of 10.10, >10, 0.59, 4.20, >10, >10, 8.41 μM for HT-29, MDA-MB-231, MG-63, U87MG, PC3, HeLa, Vero cells, respectively ^[1] . DNA topoisomerase II inhibitor 1 (0.5, 2 μM; 24 h) induces apoptosis and cell cycle arrest at sub G1 phase ^[1] . DNA topoisomerase II inhibitor 1 (0.5, 2 μM) increases the generation of reactive oxygen species (ROS) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lakshmi Manasa K, et al. Design and synthesis of β-carboline linked aryl sulfonyl piperazine derivatives: DNA topoisomerase II inhibition with DNA binding and apoptosis inducing ability. Bioorg Chem. 2020 Aug;101:103983.

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

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