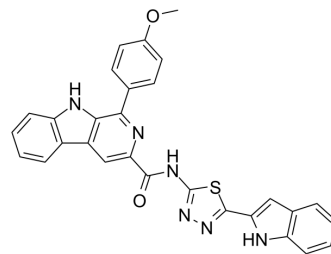


Topoisomerase II α -IN-3

Cat. No.:	HY-147801
CAS No.:	2538528-11-7
Molecular Formula:	C ₂₉ H ₂₀ N ₆ O ₂ S
Molecular Weight:	516.57
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 II α -IN-3 (Compound 12c) is a DNA intercalative topoisomerase-II α inhibitor. Topoisomerase II α -IN-3 arrests cell cycle at the G ₀ /G ₁ phase and induces apoptosis ^[1] .
IC ₅₀ & Target	topoisomerase II alpha
In Vitro	Topoisomerase II α -IN-3 (Compound 12c) shows cytotoxic potential with IC ₅₀ values of 2.82 \pm 0.10, 3.28 \pm 0.43, 4.09 \pm 0.59, 4.78 \pm 1.29, 3.83 \pm 0.9, 4.3.18 \pm 0.49 and 71.25 \pm 7.95 μ M against A549, MDA-MB-231, BT-474, HCT-116, HL-60, THP-1 and BEAS-2B cells, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tokala R, et al. Design and synthesis of thiadiazolo-carboxamide bridged β -carboline-indole hybrids: DNA intercalative topo-II α inhibition with promising antiproliferative activity. Bioorg Chem. 2020 Dec;105:104357.

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

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