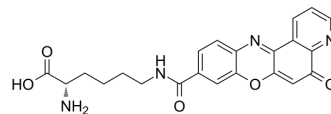


## Topoisomerase II $\alpha$ -IN-2

Cat. No.:	HY-146021
CAS No.:	2407521-90-6
Molecular Formula:	C <sub>22</sub> H <sub>20</sub> N <sub>4</sub> O <sub>5</sub>
Molecular Weight:	420.42
Target:	Topoisomerase
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Topoisomerase II $\alpha$ -IN-2 (compound 5) is a potent DNA-binding ligands and topoisomerase II $\alpha$ inhibitor. Topoisomerase II $\alpha$ -IN-2 exhibits high antiproliferative activity against human cancer cell lines. Topoisomerase II $\alpha$ -IN-2 significantly induces DNA damage and arrests cancer cells at G2/M phase <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	topoisomerase II alpha	topoisomerase II beta
<b>In Vitro</b>	Topoisomerase II $\alpha$ -IN-2 (compound 5) shows antiproliferative activity in cancer cell lines (CCRF-CEM, CCRF-SB, MT-4, HT-29, MCF-7, HeLa, ACHN, SKMEL-28, and G-361), with IC <sub>50</sub> values of 0.003, 0.005, 0.006, 0.004, 0.003, 0.005, 0.005, 0.002, and 0.006 $\mu$ M, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

### REFERENCES

[1]. Pedatella S, et al. Antitumor agents 7. Synthesis, antiproliferative activity and molecular modeling of new L-lysine-conjugated pyridophenoxazinones as potent DNA-binding ligands and topoisomerase II $\alpha$  inhibitors. Eur J Med Chem. 2020 Feb 1;187:111960.

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

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