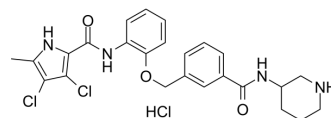


## Topoisomerase II $\alpha$ -IN-7

Cat. No.:	HY-152479
Molecular Formula:	C <sub>25</sub> H <sub>27</sub> Cl <sub>3</sub> N <sub>4</sub> O <sub>3</sub>
Molecular Weight:	537.87
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-7 is an DNA topoisomerase II $\alpha$ inhibitor with an IC <sub>50</sub> value of 7.7 $\mu$ M. Topoisomerase II $\alpha$ -IN-7 has broad-spectrum cytotoxicity to leukemia, lung, colon, melanoma, ovarian, kidney, prostate and breast cancer cells. Topoisomerase II $\alpha$ -IN-7 has metabolic stability <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	topoisomerase II alpha 7.7 $\mu$ M (IC <sub>50</sub> )
<b>In Vitro</b>	Topoisomerase II $\alpha$ -IN-7 (Compound 53b) has cytotoxicity to MCF-7 cancer cell line, HepG2 cancer cell line and human embryonic kidney derived HEK293 cells with IC <sub>50</sub> values of 0.15 $\mu$ M, 0.13 $\mu$ M and 2.1 $\mu$ M respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Skok Ž, et al. ATP-competitive inhibitors of human DNA topoisomerase II $\alpha$  with improved antiproliferative activity based on N-phenylpyrrolamide scaffold. Eur J Med Chem. 2023 Jan 18;249:115116.

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

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