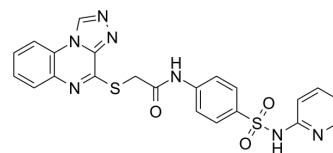


## Topoisomerase II inhibitor 9

<b>Cat. No.:</b>	HY-146189
<b>CAS No.:</b>	2413901-61-6
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>17</sub> N <sub>7</sub> O <sub>3</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	491.55
<b>Target:</b>	Topoisomerase; Apoptosis
<b>Pathway:</b>	Cell Cycle/DNA Damage; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Topoisomerase II inhibitor 9 (Compound 19b) is a Topo II inhibitor with an IC <sub>50</sub> of 0.97 μM. Topoisomerase II inhibitor 9 is also a classical DNA-intercalator with an IC <sub>50</sub> of 43.51 μM. Topoisomerase II inhibitor 9 arrests the cell cycle at the G <sub>2</sub> /M phase and induces apoptosis in Hep G <sub>2</sub> cells <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Topoisomerase II 0.97 μM (IC <sub>50</sub> )
<b>In Vitro</b>	Topoisomerase II inhibitor 9 (Compound 19b) shows antiproliferative activity with IC <sub>50</sub> values of 0.50 ± 0.1, 0.75 ± 0.1 and 2.91 ± 0.1 μM against Hep G <sub>2</sub> , Hep <sub>2</sub> and Caco <sub>2</sub> cells, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Eissa IH, et al. Discovery and antiproliferative evaluation of new quinoxalines as potential DNA intercalators and topoisomerase II inhibitors. Arch Pharm (Weinheim). 2019 Nov;352(11):e1900123.

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

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