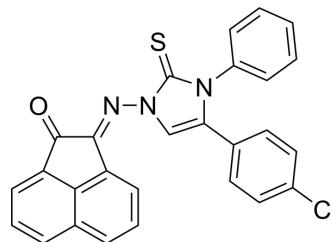


## Topoisomerase II inhibitor 19

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-162381   |
| Molecular Formula: | C <sub>27</sub> H <sub>16</sub> ClN <sub>3</sub> OS                                       |
| Molecular Weight:  | 465.95  |
| Target:            | Topoisomerase   |
| Pathway:           | Cell Cycle/DNA Damage   |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                           |   |
|---------------------------|---|
| Description               | Topoisomerase II inhibitor 19 (compound 5h) is a DNA intercalator and topoisomerase II inhibitor (IC <sub>50</sub> value of 0.34 μM). Topoisomerase II inhibitor 19 would induce detectable potent damage in ctDNA <sup>[1]</sup> .                       |
| IC <sub>50</sub> & Target | Topoisomerase II<br>0.34 μM (IC <sub>50</sub> )   |
| In Vitro                  | Topoisomerase II inhibitor 19 (compound 5h; 24 h) inhibits the cell proliferation of MCF-7 cells via cell cycle arrest at the S phase <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

[1]. Asmaa H Mohamed, et al. New imidazole-2-thiones linked to acenaphthylenone as dual DNA intercalators and topoisomerase II inhibitors: structural optimization, docking, and apoptosis studies. *J Enzyme Inhib Med Chem*. 2024 Dec;39(1):2311818.

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

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