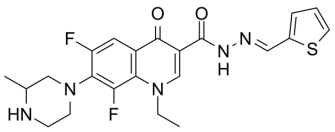
Topoisomerase II inhibitor 20

Cat. No.:	HY-158061
Molecular Formula:	$C_{22}H_{23}F_2N_5O_2S$
Molecular Weight:	459.51
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 inhibitor 20 (Compound 3e) is a potent topoisomerase II (Topoisomerase II) inhibitor with an IC_{50} of 0.98 μM. Topoisomerase II inhibitor 20 induces apoptosis and has broad-spectrum anticancer activity[1].
IC_{50} & Target	Topoisomerase II 0.98 μM (IC_{50})
In Vitro	Topoisomerase II inhibitor 20 (1.90 μM; 24 h) exhibits cell arrest in the G2-M phase, thereby inhibiting cell proliferation and inducing apoptosis[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cycle Analysis[1]

Cell Line:	Leukemia SR cells
Concentration:	1.90 μM
Incubation Time:	24 h
Result:	caused a significant increase in the G2-M phase with 49.26% in comparison to control (5.25%).

REFERENCES

[1]. Adly ME, et al. Design, synthesis and in vitro anticancer activity of some new lomefloxacin derivatives. Sci Rep. 2024 Mar 14;14(1):6175

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