Product Data Sheet

Topoisomerase II inhibitor 13

Cat. No.: HY-153401 CAS No.: 451515-89-2 Molecular Formula: $C_{22}^{}H_{23}^{}N_{9}^{}$ Molecular Weight: 413.48

Target: Topoisomerase

Pathway: Cell Cycle/DNA Damage

Storage: Powder -20°C 3 years

2 years

In solvent -80°C 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 12.5 mg/mL (30.23 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.4185 mL	12.0925 mL	24.1850 mL
	5 mM	0.4837 mL	2.4185 mL	4.8370 mL
	10 mM	0.2418 mL	1.2092 mL	2.4185 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Topoisomerase II inhibitor 13 is a topoisomerase II (Topo II) inhibitor. Topoisomerase II inhibitor 13 shows antiproliferative activity against several cancer cells. Topoisomerase II inhibitor 13 induces cancer cells apoptosis ^[1] .
IC ₅₀ & Target	Topoisomerase II
In Vitro	Topoisomerase II inhibitor 13 (compound 3m) (20 μM, 50 μM) exerts strong inhibitory effect at 20 μM, and almost completely inhibits Topo II activity ^[1] . Topoisomerase II inhibitor 13 inhibits cancer cells proliferation with IC ₅₀ s of 25.85 μM (MDA-MB-231), 1.82 μM (A549), 10.38 μ M (K562), 1.73 μM (Raji), 1.23 μM (HL-60), and 0.87 μM (HL-60/MX2), respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li P H, et al. Synthesis and menhibitors. Journal of Medicinal Ch			o] pyrazine derivatives as noninterca	alative topoisomerase II catalytic
			cal applications. For research us	
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