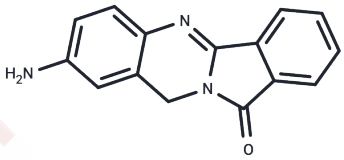
Data Sheet (Cat.No.T68896)

TargetMol

Daniquidone

Chemical Properties



CAS No. : 67199-66-0

Formula: C15H11N3O

Molecular Weight: 249.27

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Daniquidone (Batracylin) is a potent dual inhibitor of DNA topoisomerase I and DNA topoisomerase II with cytotoxic and antiproliferative activity that induces DNA fragmentation for the study of neoplasms, immune disorders, and lymphatic disorders.
Targets(IC50)	Topoisomerase
In vitro	Daniquidone (0-300 μM; 6 hours) exhibits cytotoxicity against HT29 cells, with an IC50 value of 10.02 μM[1]. Additionally, Daniquidone (100, 300 μM;3 hours) can induce protein-linked DNA breaks consistent with topoisomerase targeting[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0117 mL	20.0586 mL	40.1171 mL
5 mM	0.8023 mL	4.0117 mL	8.0234 mL
10 mM	0.4012 mL	2.0059 mL	4.0117 mL
50 mM	0.0802 mL	0.4012 mL	0.8023 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Rao VA, et al. Batracylin (NSC 320846), a dual inhibitor of DNA topoisomerases I and II induces histone gamma-H2AX as a biomarker of DNA damage. Cancer Res. 2007 Oct 15;67(20):9971-9.

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