

Topoisomerase II α -IN-10

Chemical Properties

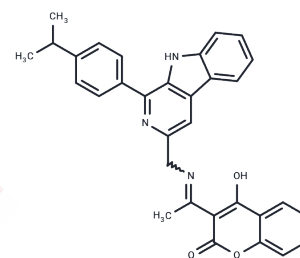
CAS No. :

Formula: C₃₂H₂₇N₃O₃

Molecular Weight: 501.575

Storage: 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	Topoisomerase II α -IN-10 (Compound 13r) is a topoisomerase II α inhibitor that binds to the active site of DNA when complexed with topoisomerase II α . This binding is stabilized through interactions with DNA base pairs and amino acid residues. By intercalating into DNA, Topoisomerase II α -IN-10 induces apoptosis and disrupts the mitochondrial membrane potential in HCT116 cells, effectively inhibiting their growth with an IC ₅₀ of 4.37 μ M. It is applicable for cancer research studies.
Targets(IC ₅₀)	Apoptosis, Mitochondrial Metabolism, Topoisomerase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9937 mL	9.9685 mL	19.937 mL
5 mM	0.3987 mL	1.9937 mL	3.9874 mL
10 mM	0.1994 mL	0.9968 mL	1.9937 mL
50 mM	0.0399 mL	0.1994 mL	0.3987 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286

E_mail: info@targetmol.com

Address: 34 Washington Street, Wellesley Hills, MA 02481