

Topo I/II-IN-2

Chemical Properties

CAS No. :

Formula: C₂₅H₂₆N₂O₄

Molecular Weight: 418.48

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	Topo I/II-IN-2 (Compound 3g) is an inhibitor of both Topo I and Topo II. It exhibits inhibitory activity against NCI-H446 and NCI-H1048 cells with IC ₅₀ values of 1.30 μM and 1.42 μM, respectively. Topo I/II-IN-2 induces mitochondrial apoptosis, disrupts mitochondrial function, and stimulates activity generation. Additionally, it inhibits the PI3K/Akt/mTOR pathway, effectively preventing the proliferation, invasion, and migration of small cell lung cancer (SCLC) cells in vitro.
Targets(IC ₅₀)	Apoptosis,Bcl-2 Family,Akt,Caspase,Cytochromes P450,mTOR,PI3K,ROS Kinase, Topoisomerase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3896 mL	11.948 mL	23.896 mL
5 mM	0.4779 mL	2.3896 mL	4.7792 mL
10 mM	0.239 mL	1.1948 mL	2.3896 mL
50 mM	0.0478 mL	0.239 mL	0.4779 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481