

## Top1/2-IN-1

## Chemical Properties

CAS No. :

Formula: C<sub>21</sub>H<sub>21</sub>N<sub>3</sub>O<sub>2</sub>

Molecular Weight: 347.41

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   | Compound 23, known as Top1/2-IN-1, is a dual inhibitor of Top1/2 that can be administered orally and exhibits antiproliferative effects. It induces apoptosis and cell cycle arrest in cancer cells by damaging DNA and elevating reactive oxygen species levels. Additionally, Top1/2-IN-1 demonstrates antitumor activity in vivo within xenograft models. |
| Targets(IC50) | Topoisomerase                                                                                                                                                                                                                                                                                                                                                |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.8784 mL | 14.3922 mL | 28.7844 mL |
| 5 mM  | 0.5757 mL | 2.8784 mL  | 5.7569 mL  |
| 10 mM | 0.2878 mL | 1.4392 mL  | 2.8784 mL  |
| 50 mM | 0.0576 mL | 0.2878 mL  | 0.5757 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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