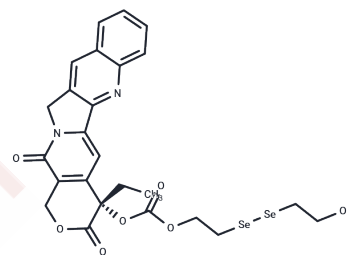


## CPT-Se4

## Chemical Properties

CAS No. :	2968315-03-7
Formula:	C <sub>25</sub> H <sub>24</sub> N <sub>2</sub> O <sub>7</sub> Se <sub>2</sub>
Molecular Weight:	622.39
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	CPT-Se4, a seleno-derivative of Camptothecin (CPT), exhibits enhanced efficacy in cancer cell eradication and tumor suppression. It reduces the GSH/GSSG balance and total thiol content while increasing ROS concentrations in Hep G2 cells, leading to the induction of cancer cell apoptosis. Furthermore, CPT-Se4 demonstrates cytotoxicity towards a range of cell lines including HeLa, Hep G2, A549, and SMMC-7721, with IC <sub>50</sub> values ranging from 2.54 to 6.4 μM [1].
Targets(IC <sub>50</sub> )	Apoptosis, Topoisomerase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6067 mL	8.0335 mL	16.0671 mL
5 mM	0.3213 mL	1.6067 mL	3.2134 mL
10 mM	0.1607 mL	0.8034 mL	1.6067 mL
50 mM	0.0321 mL	0.1607 mL	0.3213 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

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