

CPI1

## Chemical Properties

CAS No. :

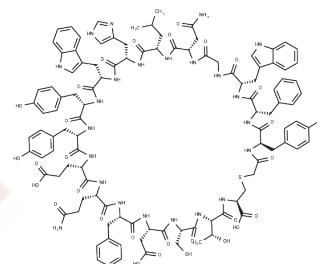
Formula: C111H131N23O30S

Molecular Weight: 2299.43

Keep away from moisture

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	CPI1 is an effective and highly specific inhibitor of multidrug resistance protein 1 (MRP1). It exhibits inhibitory activity against MRP1 at the nanomolar level (K <sub>i</sub> : 100 nM) and has minimal effect on P-glycoprotein (Pgp). CPI1 competes with LTC <sub>4</sub> for binding to the same site on MRP1, inhibiting ATP hydrolysis and substrate transport. It is useful in research related to drug delivery and addressing cancer chemotherapy resistance.
Targets(IC50)	P-gp

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4349 mL	2.1745 mL	4.3489 mL
5 mM	0.087 mL	0.4349 mL	0.8698 mL
10 mM	0.0435 mL	0.2174 mL	0.4349 mL
50 mM	0.0087 mL	0.0435 mL	0.087 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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