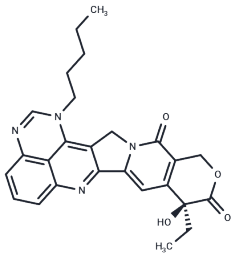
Data Sheet (Cat.No.T14945)

TargetMol

CH-0793076

Chemical Properties



CAS No. : 534605-78-2

Formula: C26H26N4O4

Molecular Weight: 458.51

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	CH-0793076, a hexacyclic camptothecin analog, is an active drug and major metabolite of TP300. CH-0793076 is efficacious against cells expressing BCRP (breast cancer resistance protein). CH-0793076 inhibits DNA topoisomerase I (IC50: 2.3 μM).
Targets(IC50)	Topoisomerase
In vitro	CH0793076 (6 days at 37°C) displays antiproliferative activity against PC-6/BCRP and PC-6/pRC cells (IC50: 0.35 and 0.18 nM).
In vivo	TP300 (1-100 mg/kg; bolus intravenous injection once per week for 3 weeks, for a total of three doses) demonstrates over 50% tumor growth inhibition across all nine models.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.181 mL	10.9049 mL	21.8098 mL
5 mM	0.4362 mL	2.181 mL	4.362 mL
10 mM	0.2181 mL	1.0905 mL	2.181 mL
50 mM	0.0436 mL	0.2181 mL	0.4362 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.

Reference

Endo M, et al. A water soluble prodrug of a novel camptothecin analog is efficacious against breast cancer resistance protein-expressing tumor xenografts. Cancer Chemother Pharmacol. 2010 Jan;65(2):363-71.

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