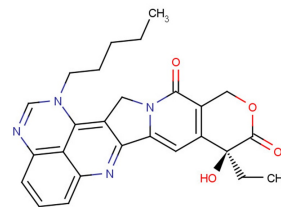


CH-0793076

## Chemical Properties

CAS No.:	534605-78-2
Formula:	C <sub>26</sub> H <sub>26</sub> N <sub>4</sub> O <sub>4</sub>
Molecular Weight:	458.51
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## 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 (IC <sub>50</sub> : 2.3 $\mu$ M).
Targets(IC <sub>50</sub> )	Topoisomerase I: 2.3 $\mu$ M
In vitro	CH0793076 (6 days at 37°C) displays antiproliferative activity against PC-6/BCRP and PC-6/pRC cells (IC <sub>50</sub> : 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) shows more than 50% of tumor growth inhibition in all nine models.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.181 mL	10.905 mL	21.81 mL
5 mM	0.436 mL	2.181 mL	4.362 mL
10 mM	0.218 mL	1.09 mL	2.181 mL
50 mM	0.044 mL	0.218 mL	0.436 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481