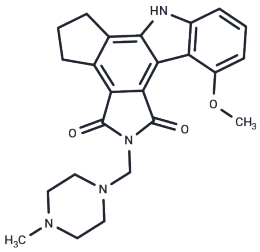
Data Sheet (Cat.No.T62196)

TargetMol

CEP-9722

Chemical Properties



CAS No. : 916574-83-9

Formula: C24H26N4O3

Molecular Weight: 418.49

Storage: Store at low temperature,Keep away from moisture
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	CEP-9722 is an orally active, selective and potent inhibitor of poly (ADP-ribose) polymerase-1 PARP-1 and poly (ADP-ribose) polymerase-12 PARP-2, with anticancer activity, and can be used for the study of ovarian cancer.
Targets(IC50)	PARP
In vitro	CEP-9722, the precursor drug of CEP-8983, is a selectively orally active inhibitor of PARP-1 and PARP-2, with IC50s of 20 nM and 6 nM for both, respectively.[2]
In vivo	In the RT4 xenograft model, CEP-9722 (100-200 mg/kg/day; oral gavage; once daily; 5 days per week for 4 weeks) showed dose-dependent antitumor effects; 200 mg/kg/day was significantly superior to the control, while 100 mg/kg did not show significantly better efficacy than the control. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3895 mL	11.9477 mL	23.8954 mL
5 mM	0.4779 mL	2.3895 mL	4.7791 mL
10 mM	0.239 mL	1.1948 mL	2.3895 mL
50 mM	0.0478 mL	0.239 mL	0.4779 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

Jian W, et al. Activity of CEP-9722, a poly (ADP-ribose) polymerase inhibitor, in urothelial carcinoma correlates inversely with homologous recombination repair response to DNA damage. Anticancer Drugs. 2014 Sep;25(8): 878-86.

Plummer R, et al. Phase 1 dose-escalation study of the PARP inhibitor CEP-9722 as monotherapy or in combination with temozolomide in patients with solid tumors. Cancer Chemother Pharmacol. 2014 Aug;74(2):257-65.

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