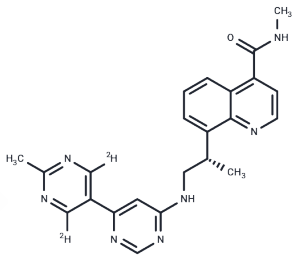
Data Sheet (Cat.No.T11067)

TargetMol

VX-984

Chemical Properties



CAS No. : 1476074-39-1

Formula: C23H21D2N7O

Molecular Weight: 415.49

Storage: Store at low temperature
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	VX-984 is an oral, selective DNA-PK inhibitor that can cross the blood-brain barrier. VX-984 inhibited the conjugation of non-homologous terminal NHEJ and acted on DSBs to break DNA double strand. VX-984 is commonly seen in glioblastoma (GBM) and non-small cell lung cancer (NSC-LC) studies.
Targets(IC50)	DNA-PK

Solubility Information

Solubility	DMSO: 9 mg/mL (21.66 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 0.5 mg/mL (1.2 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4068 mL	12.034 mL	24.068 mL
5 mM	0.4814 mL	2.4068 mL	4.8136 mL
10 mM	0.2407 mL	1.2034 mL	2.4068 mL
50 mM	0.0481 mL	0.2407 mL	0.4814 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

Atif J Khan, et al. VX-984 is a selective inhibitor of non-homologous end joining, with possible preferential activity in transformed cells. Oncotarget. 2018 May 25;9(40):25833-25841.
Cindy R Timme , et al. The DNA-PK Inhibitor VX-984 Enhances the Radiosensitivity of Glioblastoma Cells Grown In Vitro and as Orthotopic Xenografts. Mol Cancer Ther. 2018 Jun;17(6):1207-1216.