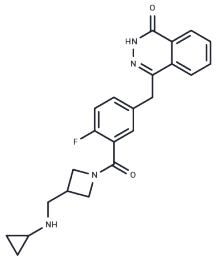
Data Sheet (Cat.No.T9430)

TargetMol

Venadaparib

Chemical Properties



CAS No. : 1681017-83-3

Formula: C23H23FN4O2

Molecular Weight: 406.45

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	Venadaparib (NOV140101) (IDX-1197) is a potent, selective and orally active PARP inhibitor with IC50s of 1.4 nM and 1.0 nM for PARP1 and PARP2, respectively. Venadaparib is insensitive to PARP-5. Venadaparib prevents the repair of DNA single-strand breaks (SSBs) and can be used in solid tumor research.
Targets(IC50)	PARP
In vitro	Venadaparib significantly inhibits PARP1-mediated PAR expression with an EC50?of 0.5 nM In DNA damage-induced Hela cells[1].
In vivo	Oral administration of Venadaparib significantly inhibits PAR(>90%) in tumor tissues until 24 hr post-dose in the germline BRCA1-mutated ovarian cancer PDX model. Venadaparib also dose-dependently inhibits potent tumor growth compared to the Olaparib treatment group[1].

Solubility Information

Solubility	DMSO: 90 mg/mL (221.43 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: 5 mg/mL (12.3 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	2.4603 mL	12.3016 mL	24.6033 mL
5 mM	0.4921 mL	2.4603 mL	4.9207 mL
10 mM	0.246 mL	1.2302 mL	2.4603 mL
50 mM	0.0492 mL	0.246 mL	0.4921 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

Cheng-Chang Chen, et al. A Small Molecule Restores Function to TRPML1 Mutant Isoforms Responsible for Mucolipidosis Type IV. Nat Commun. 2014 Aug 14;5:4681.