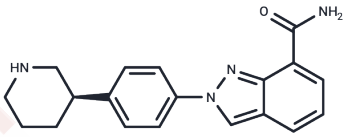
Data Sheet (Cat.No.T12064)

TargetMol

Niraparib (R-enantiomer)

Chemical Properties



CAS No. : 1038915-58-0

Formula: C19H20N4O

Molecular Weight: 320.39

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	Niraparib R-enantiomer (MK 4827 R-enantiomer) is an inhibitor of PARP1(IC50 of 2.4 nM).
Targets(IC50)	PARP
In vitro	Niraparib R-enantiomer has somewhat lower in vitro metabolic clearance than the Niraparib S-enantiomer in rat liver microsomes, but Niraparib S-enantiomer is more potent in cell based assays (PARylation EC50, Niraparib R-enantiomer=30 nM, Niraparib S-enantiomer=4.0 nM; BRCA1-HeLa CC50, Niraparib R-enantiomer=470, Niraparib S-enantiomer=34 nM). [1].

Solubility Information

Solubility	DMSO: 30 mg/mL (93.64 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: 2 mg/mL (6.24 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	3.1212 mL	15.606 mL	31.212 mL
5 mM	0.6242 mL	3.1212 mL	6.2424 mL
10 mM	0.3121 mL	1.5606 mL	3.1212 mL
50 mM	0.0624 mL	0.3121 mL	0.6242 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

Jones P, et al. Discovery of 2-{4-[(3S)-piperidin-3-yl]phenyl}-2H-indazole-7-carboxamide (MK-4827): a novel oral poly(ADP-ribose)polymerase (PARP) inhibitor efficacious in BRCA-1 and -2 mutant tumors. J Med Chem. 2009 Nov 26;52(22):7170-85.