

Niraparib R-enantiomer

Catalog No: tcsc3085



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

1038915-58-0

Formula:

$C_{19}H_{20}N_4O$

Pathway:

Epigenetics;Cell Cycle/DNA Damage

Target:

PARP;PARP

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 32 mg/mL (99.88 mM)

Alternative Names:

MK 4827 (R-enantiomer)

Observed Molecular Weight:

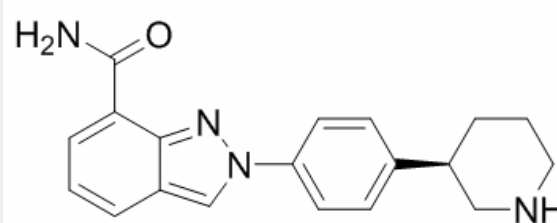
320.39

Product Description

Niraparib R-enantiomer (MK-4827 R-enantiomer) is an excellent **PARP1** inhibitor with **IC₅₀** of 2.4 nM.

IC50 & Target: IC50: 2.4 nM (PARP1)^[1]

In Vitro: Niraparib R-enantiomer (MK-4827 R-enantiomer) resolution of Niraparib R-enantiomer give compounds Niraparib R-enantiomer and Niraparib S-enantiomer, both showing excellent inhibition of PARP-1. 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). Given this improved potency and similar in vitro turnover in human liver microsomes (HLM Cl_{int}, Niraparib R-enantiomer=4, Niraparib S-enantiomer=3 μL/min/mgP), Niraparib S-enantiomer (Niraparib) is focused on^[1].



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