Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Talazoparib

Catalog No: tcsc0937

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Specifications

CAS No:
1207456-01-6

Formula:
$C_{19}H_{14}F_2N_6O$

Pathway:
Epigenetics;Cell Cycle/DNA Damage

Target:
PARP;PARP

Purity / Grade:
>98%

Solubility:
DMSO : 33.33 mg/mL (87.63 mM; Need ultrasonic); H2O :

Alternative Names:
BMN-673;LT-673

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Observed Molecular Weight:
380.35

Product Description

Talazoparib (BMN-673) is a highly potent **PARP1/2** inhibitor with **K_i**s of 1.2 nM and 0.87 nM, respectively.

IC50 & Target: IC50: 0.57 nM (PARP1)[1]

Ki: 1.2/0.87 nM (PARP1/2)[1]

In Vitro: Talazoparib (BMN 673) demonstrates excellent potency, inhibiting PARP1 and PARP2 enzyme activity with K_i=1.2 and 0.87 nM, respectively[1]. Talazoparib (BMN 673) exhibits selective antitumor cytotoxicity and elicits DNA repair biomarkers at much lower concentrations than earlier generation PARP1/2 inhibitors (such as Olaparib, Rucaparib, and Veliparib)[2].

In Vivo: Talazoparib (BMN 673; 1 mg/kg, p.o.) is orally available, displaying favorable pharmacokinetic (PK) properties and remarkable antitumor efficacy in the BRCA1 mutant MX-1 breast cancer xenograft model following oral administration as a single-agent or in combination with chemotherapy agents such as temozolomide and cisplatin[1]. Talazoparib (BMN 673) is readily orally bioavailable, with more than 40% absolute oral bioavailability in rats when dosed in carboxylmethyl cellulose. Oral administration of Talazoparib elicits remarkable antitumor activity, xenografted tumors that carry defects in DNA repair due to BRCA mutations or PTEN deficiency are profoundly sensitive to oral Talazoparib treatment at well-tolerated doses in mice[2].