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

PDD 00017273

Catalog No: tcsc0028457

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Specifications

CAS No:
1945950-21-9

Formula:
$C_{23}H_{26}N_6O_4S_2$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
514.62

Product Description

PDD 00017273 is a potent inhibitor of Poly(ADP-ribose) Glycohydrolase (**PARG**), with an **IC_{50}** of 26 nM, and a **K_D** of 1.45 nM.

IC50 & Target: IC50: 26 nM (PARG)[1]

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KD: 1.45 nM (PARG)[1]

In Vitro: PDD 00017273 is a potent inhibitor of PARG, with an IC_{50} of 26 nM, and a K_D of 1.45 nM. PDD 00017273 (10 μM) does not inhibit five common Cytochrome P450 enzymes. PDD 00017273 (30 μM) modestly increasess phosphorylated H2AX (γH2AX) intensity, PDD 00017273 also decreases in NAD/H through PARG inhibition after DNA damage. PDD 00017273 suppresses the ZR-75-1 cells carring BRCA1 and BRCA2 wild type, and exhibits less potent activities against MDA-MB-436 cells carry the 5396 + 1G>A mutation in BRCA1[1]. PDD 00017273 (0.3 μM) inhibits degradation of PAR polymers in MCF7 cells. PDD 00017273 (0.3 μM) also reduces the viability of BRCA1, BRCA2, PALB2, FAM175A, and BARD1 depleted cells. PDD 00017273 stalls replication forks and induces DNA damage that requires homologous recombination (HR) for repair[2].