

# 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

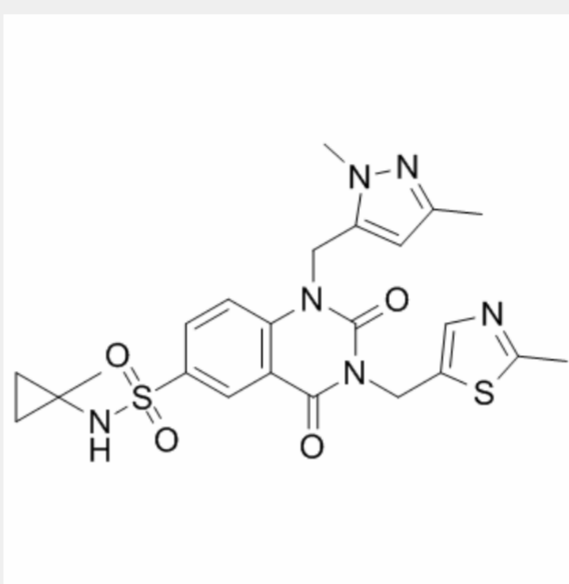
## Product Description

PDD 00017273 is a potent inhibitor of Poly(ADP-ribose) Glycohydrolase (**PARG**), with an **IC<sub>50</sub>** of 26 nM, and a **K<sub>D</sub>** of 1.45 nM.

IC50 & Target: IC50: 26 nM (PARG)<sup>[1]</sup>

KD: 1.45 nM (PARG)<sup>[1]</sup>

**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  $\mu$ M) does not inhibit five common Cytochrome P450 enzymes. PDD 00017273 (30  $\mu$ M) modestly increases phosphorylated H2AX ( $\gamma$ H2AX) intensity, PDD 00017273 also decreases in NAD/H through PARG inhibition after DNA damage. PDD 00017273 suppresses the ZR-75-1 cells carrying BRCA1 and BRCA2 wild type, and exhibits less potent activities against MDA-MB-436 cells carry the 5396 + 1G>A mutation in BRCA1<sup>[1]</sup>. PDD 00017273 (0.3  $\mu$ M) inhibits degradation of PAR polymers in MCF7 cells. PDD 00017273 (0.3  $\mu$ M) 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<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!