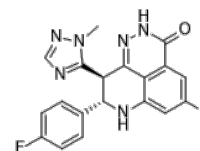


Product Name : Talazoparib
Cat. No. : PC-23876
CAS No. : 1207456-01-6
Molecular Formula : C₁₉H₁₄F₂N₆O
Molecular Weight : 380.36
Target : PARP
Solubility : 10 mM in DMSO



Biological Activity

Talazoparib (MN 673) is a highly potent, selective PARP1/2 inhibitor (PARP1, IC₅₀=0.57 nM), inhibits PARP1 and PARP2 to a similar extent with K_i of 1.20 and 0.85 nM, respectively.

Talazoparib (MN 673) inhibits intracellular poly (ADP-ribose) (PAR) formation with an IC₅₀ of 2.5 nM in LoVo cells to hydrogen peroxide (H₂O₂) to induce PAR synthesis.

Talazoparib (MN 673) shows no effect on PARG activity as well as a protein panel.

Talazoparib (MN 673) selectively targets tumor cells with BRCA1, BRCA2, or PTEN gene defects.

Talazoparib (MN 673) elicited remarkable antitumor activity in vivo xenografted tumors that carry defects in DNA repair due to BRCA mutations or PTEN deficiency.

References

Smith MA, et al. Clin Cancer Res. 2015 Feb 15;21(4):819-32.

Shen Y, et al. Clin Cancer Res. 2013 Sep 15;19(18):5003-15.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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