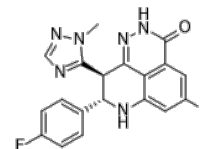


Product Name : Talazoparib
Cat. No. : PC-23876
CAS No. : 1207456-01-6
Molecular Formula : C₁₉H₁₄F₂N₆O
Molecular Weight : 380.36
Target : PARP
Solubility : 10 mM in DMSO



Biological Activity

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

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

Talazoparib (BMN-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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