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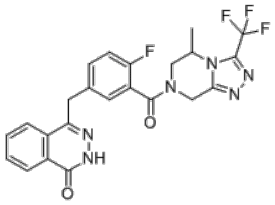
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Simmiparib
Cat. No.	:	PC-61950
CAS No.	:	1551355-46-4
Molecular Formula	:	$C_{23}H_{18}F_4N_6O_2$
Molecular Weight	:	486.431
Target	:	PARP
Solubility	:	10 mM in DMSO



Biological Activity

Simmiparib is a novel potent, orally active **PARP1/2** inhibitor with IC50 of 1.75/0.22 nM, inhibits PARP1 >90-fold more potently than the other PARPs (PARP3, TNKS1, TNKS2).
Simmiparib selectively induces the accumulation of DNA double-strand breaks, G2/M arrest and apoptosis in homologous recombination repair (HR)-deficient cells.
Simmiparib potentiates the proliferative inhibition of several conventional anticancer drugs, reduces the poly(ADP-ribose) formation in HR-deficient cancer cells and xenografts.
Simmiparib exhibits 10-fold greater growth inhibition than olaparib against HR-deficient human cancer cell- or tissue-derived xenografts in nude mice.

References

Yuan B, et al. ***Cancer Lett***. 2017 Feb 1;386:47-56.

Yang ZM, et al. ***Acta Pharmacol Sin***. 2017 Jul;38(7):1038-1047.

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