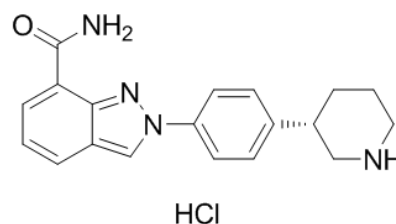


Product Name : MK-4827 hydrochloride
Cat. No. : PC-42682
CAS No. : 1038915-64-8
Molecular Formula : C₁₉H₂₁ClN₄O
Molecular Weight : 356.8492
Target : PARP
Solubility : 10 mM in DMSO



Biological Activity

MK-4827 (Niraparib) hydrochloride is a highly potent PARP inhibitor with IC₅₀ of 3.8 nM/2.1 nM for **PARP1/PARP2**. MK-4827 inhibits PARP activity with EC₅₀=4 nM in a whole cell assay, and inhibits proliferation of cancer cells with mutant BRCA-1 and BRCA-2 with CC₅₀ in the 10–100 nM range. MK-4827 is well tolerated in vivo and demonstrates efficacy as a single agent in a xenograft model of BRCA-1 deficient cancer.

References

- Jones P, et al. J Med Chem. 2009 Nov 26;52(22):7170-85.
Bridges KA, et al. Oncotarget. 2014 Jul 15;5(13):5076-86.
Mirza MR, et al. N Engl J Med. 2016 Dec 1;375(22):2154-2164.

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

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