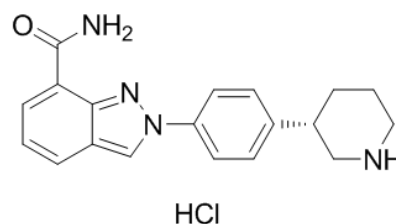


**Product Name** : MK-4827 hydrochloride  
**Cat. No.** : PC-42682  
**CAS No.** : 1038915-64-8  
**Molecular Formula** : C<sub>19</sub>H<sub>21</sub>ClN<sub>4</sub>O  
**Molecular Weight** : 356.8492  
**Target** : PARP  
**Solubility** : 10 mM in DMSO



## Biological Activity

Niraparib (MK-4827) hydrochloride is a highly potent PARP inhibitor with IC<sub>50</sub> of 3.8 nM/2.1 nM for **PARP1/PARP2**. MK-4827 inhibits PARP activity with EC<sub>50</sub>=4 nM in a whole cell assay, and inhibits proliferation of cancer cells with mutant BRCA-1 and BRCA-2 with CC<sub>50</sub> 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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