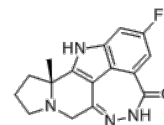


**Product Name** : Pamiparib  
**Cat. No.** : PC-60483  
**CAS No.** : 1446261-44-4  
**Molecular Formula** : C<sub>16</sub>H<sub>15</sub>FN<sub>4</sub>O  
**Molecular Weight** : 298.32  
**Target** : PARP  
**Solubility** : 10 mM in DMSO



1. Zhiyu Tang, et al. *Cancer Res* (2015) 75 (15\_Supplement): 1653.

## Biological Activity

Pamiparib (BGB-290, BGB290) is a highly potent, selective and brain penetrant **PARP1/2** inhibitor with IC<sub>50</sub> of 0.9 nM and 0.5 nM for PARP1 and PARP2, respectively.

Pamiparib (BGB-290) is high selectivity over other PARP enzymes.

Pamiparib (BGB-290) shows potent DNA-trapping activity with IC<sub>50</sub> of 13 nM in vitro.

Pamiparib (BGB-290) potently inhibits intracellular PAR formation with an IC<sub>50</sub> of 0.24 nM in cellular assays, is highly active both in vitro and in vivo in BRCA mutant tumor cells.

Oral administration of BGB-290 resulted in time-dependent and dose-dependent inhibition of PARylation in MDA-MB-436 (BRCA1 mutant) breast cancer xenograft, over 10-fold more potent than olaparib.

## References

