

Store at
-20°C
#93852**Olaparib (AZD2281)**

5 mg


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For Research Use Only. Not for Use in Diagnostic Procedures.**Background**

Olaparib (AZD2281) is a potent and selective PARP-inhibitor, specifically targeting PARP1 and PARP2 (IC_{50} = 5 nM and 1 nM, respectively) (1). This small molecule has synergistic effects on breast cancer cell lines when combined with other treatments, independent of *BRCA1* status (2). Non-small cell lung cancer (NSCLC) cancer cells that are homologous recombination (HR)-deficient are hypersensitive to Olaparib (AZD2281) treatment, resulting in reduced cell viability (3).

Molecular Formula $C_{24}H_{23}FN_4O_3$ **Molecular Weight**

434.5 g/mol

Purity

>98%

CAS

763113-22-0

Solubility

Soluble in DMSO at 33 mg/ml or ethanol at 1.7 mg/ml.

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 1 month to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

Olaparib (AZD2281) is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 1.15 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Menear, K.A. et al. (2008) *J Med Chem* 51, 6581-91.
2. Ávila-Arroyo, S. et al. (2015) *J Breast Cancer* 18, 329-38.
3. Ji, W. et al. (2019) *Biochem Biophys Res Commun*, pii: S0006-291X(19)32170-9. doi: 10.1016/j.bbrc.2019.11.050.

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