

Store at
-20°C

Olaparib (AZD2281)



#93852

5 mg

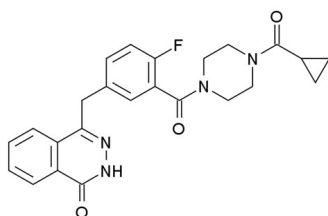
Support: +1-978-867-2388 (U.S.)
www.cellsignal.com/supportOrders: 877-616-2355 (U.S.)
orders@cellsignal.com

New 12/19

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 (IC₅₀ = 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: C₂₄H₂₃FN₄O₃

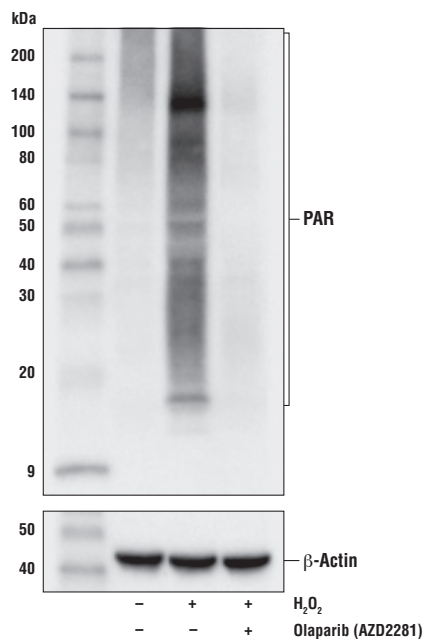


Molecular Weight: 434.5 g/mol

Purity: >98%

CAS: 763113-22-0

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



Western blot analysis of extracts from MCF7 cells, untreated (-) or treated with Hydrogen Peroxide (H₂O₂) (1 mM, 10 min; +), either with or without Olaparib (AZD2281) pretreatment (1 μM, 48 hr; +), using Poly/Mono-ADP Ribose (E6F6A) Rabbit mAb #83732 (upper) and β-Actin (D6A8) Rabbit mAb #8457 (lower).

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) Meneer, 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.

Thank you for your recent purchase. If you would like to provide a review visit cellsignal.com/comments.

www.cellsignal.com

© 2019 Cell Signaling Technology, Inc.

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected **Species** enclosed in parentheses are predicted to react based on 100% homology.