

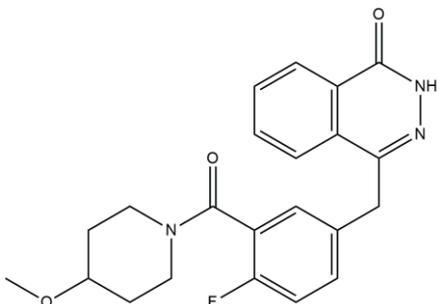
# AZD-2461

01/21

**ALTERNATE NAMES:** 4-[[4-fluoro-3-(4-methoxypiperidine-1-carbonyl)phenyl]methyl]-2H-phthalazin-1-one; 4-(4-fluoro-3-(4-methoxypiperidine-1-carbonyl)benzyl)phthalazin-1(2H)-one

**CATALOG #:** B3103-5 5 mg  
B3103-25 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>22</sub>H<sub>22</sub>FN<sub>3</sub>O<sub>3</sub>

**MOLECULAR WEIGHT:** 395.43

**CAS NUMBER:** 1174043-16-3

**APPEARANCE:** White to beige powder

**PURITY:** ≥ 98%

**SOLUBILITY:** ~20 mg/ml in DMSO

**DESCRIPTION:** AZD-2461 is an inhibitor of poly(ADP-ribose) polymerase (PARP). It inhibits PARP1 and PARP2 with IC<sub>50</sub> values of 5 nM and 2 nM. It has lower affinity for P-glycoprotein and suppresses the development of drug resistance.

**STORAGE TEMPERATURE:** -20 °C

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCES:**

- Jaspers, J.E., Kersbergen, A., Boon, U., et al. Loss of 53BP1 causes PARP inhibitor resistance in Brca1-mutated mouse mammary tumors. *Cancer Discov.* 3(1), 68-81 (2013).
- O'Connor, L.O., Rulten, S.L., Cranston, A.N., et al. The PARP Inhibitor AZD2461 Provides Insights into the Role of PARP3 Inhibition for Both Synthetic Lethality and Tolerability with Chemotherapy in Preclinical Models. *Cancer Res* 76(20):6084-6094 (2016).

**RELATED PRODUCTS:**

Iniparib (Cat. No. 1968)  
 DPQ (Cat. No. 1899)  
 DR2313 (Cat. No. 1771)  
 NU 1025 (Cat. No. 2351)  
 ABT-888 (Cat. No. 1620)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*