

## Olaparib, PARP1 inhibitor

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Catalog	Unit
TBI2154-5MG	5 mg
TBI2154-25MG	25 mg

### Product Details

**Formal Name:** 4-(3-(4-(Cyclopropanecarbonyl)piperazine-1-carbonyl)-4-fluorobenzyl)phthalazine-1(2H)-one

**Alternate Names:** AZD-2281; KU-59436

**Molecular Formula:** C<sub>24</sub>H<sub>23</sub>FN<sub>4</sub>O<sub>3</sub>

**Formula Weight:** 434.47

**CAS Number:** 763113-22-0

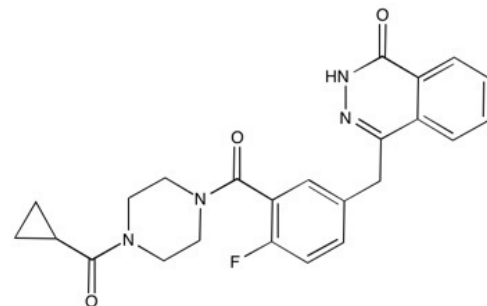
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 33 mg/ml) or in Ethanol (up to 1.7 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

PARP1 inhibitor

### Functions

A highly potent and selective PARP-inhibitor with IC<sub>50</sub> values of 5 nM and 1 nM for PARP-1 and PARP-2, respectively. In a genetically engineered mouse model for BRCA1-associated breast cancer olaparib inhibited tumor growth and improved survival with no signs of toxicity. Synergizes with many other anticancer agents. Shows efficacy in colorectal cancers. Prevents house dust mite allergen-induced asthma in a mouse model.

### Application Procedures

First dissolved in DMSO (up to 33 mg/ml) or in Ethanol (up to 1.7 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

**For research use only.**