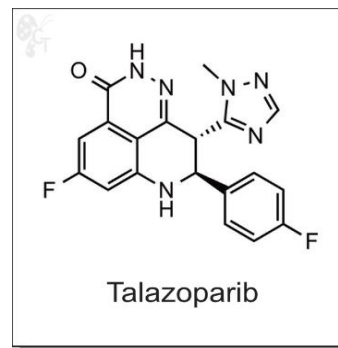


Product Specification Sheet

Product Name: Talazoparib (BMN 673)

Catalog Number: C2667



Technical information:

Chemical Formula: $C_{19}H_{14}F_2N_6O$

CAS #: 1207456-01-6

Molecular Weight: 380.35

Purity: > 98%

Appearance: Off-white solid

Solubility: Soluble in DMSO up to 100 mM

Chemical Name: 3H-Pyrido[4,3,2-de]phthalazin-3-one, 5-fluoro-8-(4-fluorophenyl)-2,7,8,9-tetrahydro-9-(1-methyl-1H-1,2,4-triazol-5-yl)-, (8S,9R)-

Storage: For longer shelf life, store solid powder or DMSO solution at -20°C desiccated.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

- Handling:**
- To make 10 mM stock solution, add 0.263 mL of DMSO for each mg of Talazoparib (BMN 673).
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: Talazoparib (BMN 673) is a novel and orally active poly(ADP-ribose) polymerase (PARP) 1 and 2 inhibitor. Talazoparib (BMN 673) inhibits PARP1 and PARP2 enzyme activity with $K_i = 1.2$ and 0.87 nM, respectively. In a cell-based assay, Talazoparib (BMN 673) inhibits PARP-mediated PARylation with an EC_{50} of 2.51 nM. It also inhibits the proliferation of cancer cells carrying mutant BRCA1/2, such as MX-1 ($EC_{50} = 0.3$ nM) and Capan-1 ($EC_{50} = 5$ nM). [1] Talazoparib (BMN 673) demonstrates remarkable antitumor efficacy in a BRCA1 mutant MX-1 breast cancer xenograft model. [1]

Talazoparib (BMN 673) is currently being studied in a Phase III clinical trial in breast cancer patients with BRCA mutation. [2]

- Reference:**
1. Wang B, et al. Discovery and Characterization of (8S,9R)-5-Fluoro-8-(4-fluorophenyl)-9-(1-methyl-1H-1,2,4-triazol-5-yl)-2,7,8,9-tetrahydro-3H-pyrido[4,3,2-de]phthalazin-3-one (BMN 673, Talazoparib), a Novel, Highly Potent, and Orally Efficacious Poly(ADP-ribose) Polymerase-1/2 Inhibitor, as an Anticancer Agent. *J Med Chem.* 2016. 59(1):335-57 Pubmed ID: 26652717
 2. <https://clinicaltrials.gov/show/NCT01945775>

To reorder: <http://www.cellagentech.com/Talazoparib-BMN-673/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.