AZD2281 (Olaparib)

Catalog #: 27003  Lot #: 111118

Size: 10 mg  Structure:

CAS Registry #: 763113-22-0

Purity: ≥ 95%

Chemical Formula: C_{24}H_{23}FN_{4}O_{3}

Molecular Weight: 434.46

Description: Olaparib is a poly(ADP-ribose) polymerase 1 (PARP1) inhibitor and an anti-cancer drug being tested in patients with mutations in the genes BRCA1 or BRCA2.

Appearance: White to off-white crystalline solid: granular or powder.

Solubility: Soluble in DMSO at 33 mg/mL; soluble in ethanol at 1.7 mg/mL with slight warming; very poorly soluble in water; maximum solubility in plain water is estimated to be about 10-20 µM buffers, serum, or other additives may increase or decrease the aqueous solubility.

Biological Activity: Olaparib (AZD2281) is a potent PARP inhibitor with IC_{50} of 1.1 nM for PARP1 using the BPS Bioscience PARP1 Assay Kit (Cat. # 80551). It inhibits PARP2 with IC_{50} = 0.9 nM for using the BPS Bioscience PARP2 Assay Kit (Cat. # 80552).

Storage/Stability: Store at or below -20°C.

Quality Control: The purity was determined by HPLC.

References:

© 2011 BPS Bioscience Inc.