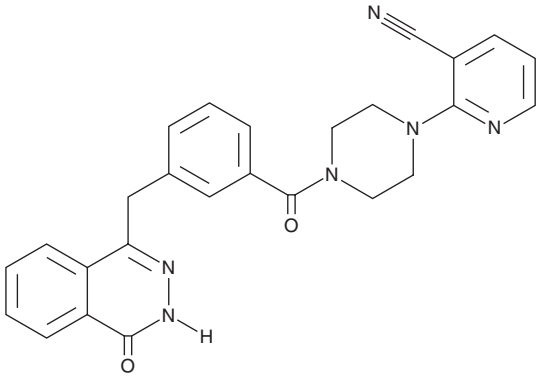
PRODUCT INFORMATION

AZ9482

Item No. 30292



CAS Registry No.:	1825345-33-2
Formal Name:	2-[4-[3-[(3,4-dihydro-4-oxo-1-phthalazinyl)methyl]benzoyl]-1-piperazinyl]-3-pyridinecarbonitrile
MF:	$C_{26}H_{22}N_6O_2$
FW:	450.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 265 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AZ9482 is supplied as a crystalline solid. A stock solution may be made by dissolving the AZ9482 in the solvent of choice, which should be purged with an inert gas. AZ9482 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of AZ9482 in these solvents is approximately 0.15 and 0.25 mg/ml, respectively.

Description

AZ9482 is a poly(ADP-ribose) polymerase (PARP) inhibitor (IC_{50}s = 1, 1, 46, 640, 9, and 160 nM for PARP1, -2, -3, -6, TNKS1/PARP5a, and TNKS2, respectively).[1] It induces centrosome declustering (EC_{50} = <18 nM) and a multipolar spindle phenotype in HeLa cells. AZ9482 inhibits the growth of OCI-LY19 diffuse large B cell lymphoma (DLBCL) cells (GI_{50} = 3 nM).

Reference

1. Johannes, J.W., Almeida, L., Daly, K., *et al.* Discovery of AZ0108, an orally bioavailable phthalazinone PARP inhibitor that blocks centrosome clustering. *Bioorg. Med. Chem. Lett.* **25(24)**, 5743-5747 (2015).

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