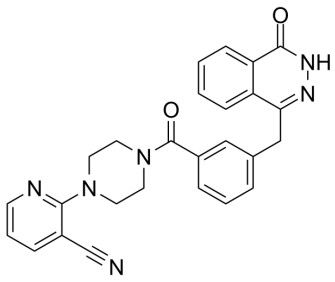
AZ9482

Cat. No.:	HY-119653
CAS No.:	1825345-33-2
Molecular Formula:	$C_{26}H_{22}N_6O_2$
Molecular Weight:	450.49
Target:	PARP
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (277.48 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2198 mL	11.0990 mL	22.1981 mL
	5 mM	0.4440 mL	2.2198 mL	4.4396 mL
	10 mM	0.2220 mL	1.1099 mL	2.2198 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.08 mg/mL (4.62 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (4.62 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AZ9482 is a triple PARP1/2/6 inhibitor, with IC_{50} values of 1 nM, 1 nM and 640 nM for PARP1, PARP2 and PARP6, respectively [1].

In Vitro

AZ9482 exhibits an EC_{50} of 24 nM in MDA-MB-468 cells[1].

AZ0108 treatment prevents CHK1 MARylation and induces hyperphosphorylation of CHK1, contributing to MPS formation and dysregulation of the cell cycle[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

	Cell Viability Assay[1]
	Cell Line: MDA-MB-468 cells.
	Concentration: 0-10 μM.
	Incubation Time: 3 days.
	Result: EC_{50} was 24 nM.
In Vivo	AZ0108 also displays toxicity in vivo, the molecular basis of which is currently undefined, limiting pharmacological evaluation of AZ0108[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ryan T Howard, et al. Structure-Guided Design and In-Cell Target Profiling of a Cell-Active Target Engagement Probe for PARP Inhibitors. ACS Chem Biol. 2020 Feb 21;15(2):325-333.

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