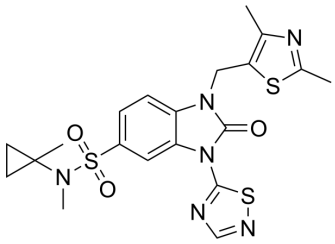
PDD00031705

Cat. No.:	HY-135846
CAS No.:	2032096-45-8
Molecular Formula:	$C_{20}H_{22}N_6O_3S_3$
Molecular Weight:	490.62
Target:	Poly(ADP-ribose) Glycohydrolase (PARG)
Pathway:	Cell Cycle/DNA Damage
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 : 100 mg/mL (203.82 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0382 mL	10.1912 mL	20.3824 mL
	5 mM	0.4076 mL	2.0382 mL	4.0765 mL
	10 mM	0.2038 mL	1.0191 mL	2.0382 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: ≥ 2.5 mg/mL (5.10 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.10 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.10 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PDD00031705 is a benzimidazolone core cell-inactive inhibitor of Poly (ADP-ribose) glycohydrolase (PARG)[1].

In Vitro

PDD00031705 shows some modest toxicity in in HeLa cells[1].

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

REFERENCES

[1]. James DI, et al. First-in-Class Chemical Probes against Poly(ADP-ribose) Glycohydrolase (PARG) Inhibit DNA Repair with Differential Pharmacology to AZD2281. ACS Chem Biol. 2016 Nov 18;11(11):3179-3190. Epub 2016 Oct 12.

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