PARP1-IN-8

Cat. No.: HY-147030

CAS No.: 836640-15-4

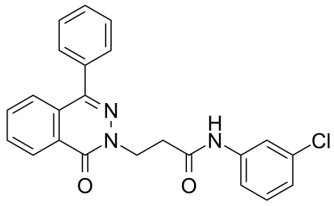
Molecular Formula: $C_{23}H_{18}ClN_3O_2$

Molecular Weight: 403.86

Target: PARP

Pathway: Cell Cycle/DNA Damage; Epigenetics

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (154.76 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4761 mL	12.3805 mL	24.7611 mL
	5 mM	0.4952 mL	2.4761 mL	4.9522 mL
	10 mM	0.2476 mL	1.2381 mL	2.4761 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PARP1-IN-8 (compound 11c) is a potent and BBB-penetrated PARP1 inhibitor, with an IC_{50} of 97 nM. PARP1-IN-8 shows significantly potent anti-proliferative activity against Human lung adenocarcinoma epithelial cell line A549[1].

IC_{50} & Target

PARP-1
97 nM (IC_{50})

In Vitro

PARP1-IN-8 (compound 11c) (0-10 μM, 24-48 h) shows significantly potent anti-proliferative activity against A549 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay

Cell Line:	A549, HFF cells[1]
Concentration:	0, 0.1, 1, 10 μM

Incubation Time:	24, 48 h
Result:	Showed significantly potent anti-proliferative activity against A549 cells, and didn't display any significant cytotoxicity on HFF cells[1].

REFERENCES

[1]. Almahli H, Hadchity E, Jaballah MY, Daher R, Ghabbour HA, Kabil MM, Al-Shakliah NS, Eldehna WM. Development of novel synthesized phthalazinone-based PARP-1 inhibitors with apoptosis inducing mechanism in lung cancer. Bioorg Chem. 2018 Apr;77:443-456.

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