PARP-1-IN-4

Cat. No.: HY-153590

CAS No.: 684234-56-8

Molecular Formula: $C_{22}H_{15}Cl_2N_3O_2$

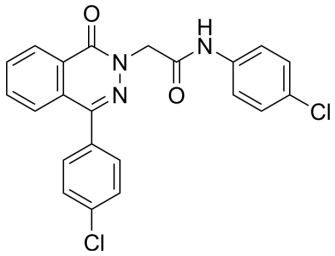
Molecular Weight: 424.28

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 : 7.69 mg/mL (18.12 mM; ultrasonic and warming and adjust pH to 2 with HCl and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3569 mL	11.7847 mL	23.5693 mL
	5 mM	0.4714 mL	2.3569 mL	4.7139 mL
	10 mM	0.2357 mL	1.1785 mL	2.3569 mL

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

BIOLOGICAL ACTIVITY

Description

PARP-1-IN-4 is a PARP-1 inhibitor. PARP-1-IN-4 has inhibitory activity against PARP-1 with IC_{50} value of 302 μM. PARP-1-IN-4 can be used for the research of lung adenocarcinoma[1].

IC_{50} & Target

IC50: 302 μM (PARP-1)[1]

In Vitro

PARP-1-IN-4 has inhibitory activity against PARP-1 with IC_{50} value of 302 μM[1].

PARP-1-IN-4 (0.1, 1 and 10 μM; 24h and 48h) has cytotoxicity activity against A549 cells[1].

PARP-1-IN-4 (1 μM; 24h) exhibits a significant increase in the expression levels of caspase-3 and caspase-9protein[1].

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

Cell Proliferation Assay[1]

Cell Line:	A549 cells
Concentration:	0.1, 1 and 10 μM

Incubation Time:	24h and 48h
Result:	Exhibited cytotoxicity activity against A549 cells.

REFERENCES

[1]. Almahli H, et al. Development of novel synthesized phthalazinone-based PARP-1 inhibitors with apoptosis inducing mechanism in lung cancer. Bioorg Chem. 2018;77:443-456.

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