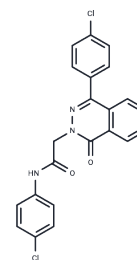


PARP-1-IN-4

Chemical Properties

CAS No. :	684234-56-8
Formula:	C ₂₂ H ₁₅ Cl ₂ N ₃ O ₂
Molecular Weight:	424.28
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	PARP-1-IN-4 is a potent PARP-1 inhibitor with potential anti-tumor activity, where inhibition of PARP-1 may be applied in cancer treatment.
Targets(IC50)	PARP
In vitro	PARP-1-IN-4 exhibits inhibitory activity against PARP-1, with an IC ₅₀ value of 302 μM[1]. It demonstrates cytotoxicity against A549 cells at concentrations of 0.1, 1, and 10 μM for 24h and 48h[1]. Treatment with PARP-1-IN-4 at 1 μM for 24h significantly increases the expression levels of caspase-3 and caspase-9 proteins[1].

Solubility Information

Solubility	DMSO: 5 mg/mL (11.78 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0471 mL	0.2357 mL	0.4714 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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