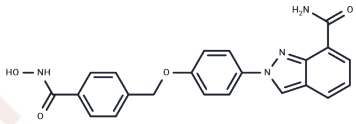
Data Sheet (Cat.No.T61962)

TargetMol

PARP-1/HDAC-IN-1

Chemical Properties



CAS No. : 3032621-10-3

Formula: C22H18N4O4

Molecular Weight: 402.4

Storage: Store at low temperature
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/HDAC-IN-1 is an effective dual inhibitor of PARP-1 and HDAC6, with IC50 values of 68.90 nM and 510 nM, respectively. PARP-1/HDAC-IN-1 exhibits anti-cancer, anti-migration, and anti-angiogenesis activities.
Targets(IC50)	HDAC,PARP
In vitro	PARP-1/HDAC-IN-1 (Compound 1-8-6) significantly inhibits various cell lines, including MDA-MB-436, ES-2, DU145, A549, HCC1937, and Capan-1, with IC50 values from 0.35 μM to 5.67 μM [1]. At 0.3 to 10 μM, it notably increases acetylated α-tubulin expression while minimally impacting histones H3 and H4 acetylation levels [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4851 mL	12.4254 mL	24.8509 mL
5 mM	0.497 mL	2.4851 mL	4.9702 mL
10 mM	0.2485 mL	1.2425 mL	2.4851 mL
50 mM	0.0497 mL	0.2485 mL	0.497 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

Ziwei Chi, et al. Design, synthesis and antitumor activity study of PARP-1/HDAC dual targeting inhibitors. Bioorg Med Chem Lett. 2022 Sep 1;71:128821.

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