

BI-7273

Chemical Properties

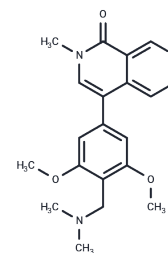
CAS No. : 1883429-21-7

Formula: C₂₀H₂₃N₃O₃

Molecular Weight: 353.41

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	BI-7273 is an effective, specific, BRD9 BD Inhibitor, which can infiltrate cell.
Targets(IC50)	Epigenetic Reader Domain
In vitro	BI-7273 blocks EOL-1 cell proliferation with EC50 of 1400 nM. BI-7273 (1 μM) is active in U2OS cell lines. BI-7273 (10 μM) shows an inhibition below 40% against 31 kinases[1].
Cell Research	Cells are grown in 50 μL medium as specified by the supplier for 7 days starting with 500 and with 1000 cells per well of a 384 well plate in the presence of varying concentrations of compound before measuring viability via cellular ATP levels using the cell titer glow assay.

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 65 mg/mL (183.92 mM),Sonication is recommended. DMSO: 65 mg/mL (183.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.83 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8296 mL	14.1479 mL	28.2957 mL
5 mM	0.5659 mL	2.8296 mL	5.6591 mL
10 mM	0.283 mL	1.4148 mL	2.8296 mL
50 mM	0.0566 mL	0.283 mL	0.5659 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

Martin LJ, et al. J Med Chem. 2016, 59(10):4462-4475.

Zhang W, Chen F, Chen R, et al. Zscan4c activates endogenous retrovirus MERVL and cleavage embryo genes. Nucleic Acids Research. 2019

Zhang W, Chen F, Chen R, et al. Zscan4c activates endogenous retrovirus MERVL and cleavage embryo genes[J]. Nucleic acids research. 2019.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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