

BI-9321 trihydrochloride

Chemical Properties

CAS No. :	2387510-87-2
Formula:	C ₂₂ H ₂₄ Cl ₃ FN ₄
Molecular Weight:	469.81
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	BI-9321 trihydrochloride (BI9321 trihydrochloride) is a selective and potent NSD3-PWWP1 antagonist that downregulates Myc messenger RNA expression and reduces proliferation in MOLM-13 cells.
Targets(IC50)	Histone Methyltransferase
In vitro	BI-9321 trihydrochloride specifically interfered with the interaction between the NSD3-PWWP1 structural domain and histones, with an IC ₅₀ =1.2 μM in U2OS cells. BI-9321 trihydrochloride targeted the methyl lysine binding site of the PWWP1 structural domain and effectively bound its intracellular target at 1 μM concentration. In addition, BI-9321 trihydrochloride significantly down-regulated the expression of Myc mRNA and reduced the proliferation of MOLM-13 cells. [1]

Solubility Information

Solubility	H ₂ O: 20 mg/mL(42.57 mM),Sonication is recommended. DMSO: 200 mg/mL(425.70 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: 2 mg/mL (4.26 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	2.1285 mL	10.6426 mL	21.2852 mL
5 mM	0.4257 mL	2.1285 mL	4.257 mL
10 mM	0.2129 mL	1.0643 mL	2.1285 mL
50 mM	0.0426 mL	0.2129 mL	0.4257 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

Böttcher J, et al. Fragment-based discovery of a chemical probe for the PWWP1 domain of NSD3. Nat Chem Biol. 2019 Aug;15(8):822-829.

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