

UNC6934

Chemical Properties

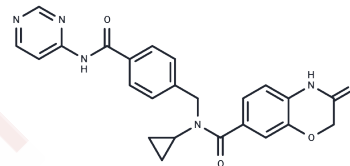
CAS No. : 2561494-77-5

Formula: C₂₄H₂₁N₅O₄

Molecular Weight: 443.45

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	UNC6934 is a chemical probe targeting the N-terminal PWWP (PWWP1) domain of NSD2.
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase,Histone Methyltransferase
In vitro	UNC6934 occupies the canonical H3K36me ₂ -binding pocket of PWWP1, antagonizes PWWP1 interaction with nucleosomal H3K36me ₂ and selectively engages endogenous NSD2 in cells[1].

Solubility Information

Solubility	DMSO: 8.82 mg/mL (19.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.88 mg/mL (1.98 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.51 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	2.255 mL	11.2752 mL	22.5505 mL
5 mM	0.451 mL	2.255 mL	4.5101 mL
10 mM	0.2255 mL	1.1275 mL	2.255 mL
50 mM	0.0451 mL	0.2255 mL	0.451 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

Dilworth D, et al. A chemical probe targeting the PWWP domain alters NSD2 nucleolar localization. Nat Chem Biol. 2022 Jan;18(1):56-63.

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