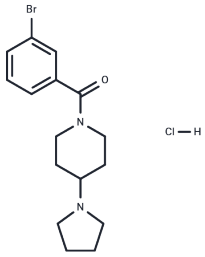
Data Sheet (Cat.No.T9221)

TargetMol

UNC926 hydrochloride

Chemical Properties



CAS No. : 1782573-49-2

Formula: C16H22BrClN2O

Molecular Weight: 373.72

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	UNC926 hydrochloride is a methyl-lysine (Kme) reader domain inhibitor.
Targets(IC50)	Epigenetic Reader Domain
In vitro	UNC926 demonstrates a low micromolar affinity toward L3MBTL3, exhibiting an IC50 of 3.2 μM, and shows diminished affinity for other MBT domains without binding to CBX7. In a concentration-dependent manner ranging from 1-25 μM, UNC926 effectively inhibits the interaction between the 3xMBT domain and H4K20me1 and impedes the association of L3MBTL1's 3xMBT with specific histone peptides. However, it does not disrupt the binding of 53BP1 to H4K20me1, indicating that UNC926 specifically targets L3MBTL1 rather than 53BP1.

Solubility Information

Solubility	DMSO: 150 mg/mL (401.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6758 mL	13.379 mL	26.758 mL
5 mM	0.5352 mL	2.6758 mL	5.3516 mL
10 mM	0.2676 mL	1.3379 mL	2.6758 mL
50 mM	0.0535 mL	0.2676 mL	0.5352 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

Herold JM, et al. Structure-activity relationships of methyl-lysine reader antagonists. MedChemComm. 2012;3(45): 45-51.

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