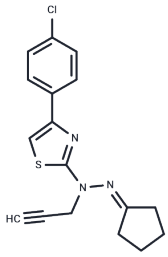
Data Sheet (Cat.No.T35820)

TargetMol

CAY10685

Chemical Properties



CAS No. : 1613116-16-7

Formula: C17H16ClN3S

Molecular Weight: 329.85

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	CAY10685 is a cell-permeable analog of the lysine acetyltransferase inhibitor CPTH2 that incorporates an alkyne functional group enabling click chemistry-based labeling strategies, and through inhibition of N-acetyltransferase 10 activity. CAY10685 has been extensively applied to modulate chromatin organization, facilitating detailed investigations into alterations of nuclear architecture associated with oncogenesis and specific laminopathies in advanced epigenetic and cell biology studies.
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: 3 mg/mL (9.1 mM),Sonication is recommended. DMF: 10 mg/mL (30.32 mM),Sonication is recommended. DMF:PBS(pH7.2) (1:2): 0.3 mg/mL (0.91 mM),Sonication is recommended. DMSO: 5 mg/mL (15.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0317 mL	15.1584 mL	30.3168 mL
5 mM	0.6063 mL	3.0317 mL	6.0634 mL
10 mM	0.3032 mL	1.5158 mL	3.0317 mL
50 mM	0.0606 mL	0.3032 mL	0.6063 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

Larrieu D, et al. Chemical inhibition of NAT10 corrects defects of laminopathic cells[J]. Science, 2014, 344(6183): 527-532.

Shrimp J, et al. Remodelin is a cryptic assay interference chemotype that does not inhibit NAT10-dependent cytidine acetylation[J]. ACS Medicinal Chemistry Letters, 2020, 12(6): 887-892.

Chimenti F, et al. A novel histone acetyltransferase inhibitor modulating Gcn5 network: cyclopentylidene-[4-(4′-chlorophenyl) thiazol-2-yl) hydrazone[J]. Journal of medicinal chemistry, 2009, 52(2): 530-536.

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