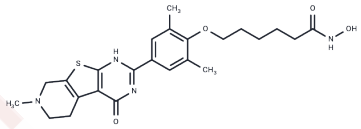
Data Sheet (Cat.No.T38381)

TargetMol

CAY17c

Chemical Properties



CAS No. : 2414373-11-6

Formula: C24H30N4O4S

Molecular Weight: 470.58

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	CAY17c is an inhibitor of bromodomain-containing protein 4 (BRD4; IC50= 0.71 μM), as well as class I histone deacetylases (HDACs; IC50s = 0.046, 0.058, 0.075, and 0.167 μM for HDAC1, -2, -3, and -8, respectively) and class IIb HDACs (IC50s = 0.073 and 0.923 μM for HDAC6 and HDAC10, respectively).1It is selective for these enzymes over BRD2, -3, and -T (IC50s = >20 μM for all), as well as over HDAC4, -5, -7, -9, and -11 (IC50s = >10 μM for all). CAY17c inhibits the proliferation of HCT116, SW620, and DLD-1 colorectal cancer cells (IC50s = 0.45, 1.78, and 2.11 μM, respectively), as well as induces apoptosis and autophagy in HCT116 cells. It reduces tumor growth in an HCT116 mouse xenograft model when administered at doses of 15 and 30 mg/kg.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Slightly soluble DMF: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.125 mL	10.6252 mL	21.2504 mL
5 mM	0.425 mL	2.125 mL	4.2501 mL
10 mM	0.2125 mL	1.0625 mL	2.125 mL
50 mM	0.0425 mL	0.2125 mL	0.425 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

Pan, Z., Li, X., Wang, Y., et al.Discovery of thieno[2,3-d]pyrimidine-based hydroxamic acid derivatives as bromodomain-containing protein 4/histone deacetylase dual inhibitors induce autophagic cell death in colorectal carcinoma cellsJ. Med. Chem.63(7)3678-3700(2020)

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