Data Sheet (Cat.No.T17278)

TargetMol

YUKA1

Chemical Properties

CAS No. : 708991-09-7

Formula: C13H16N4O2S

Molecular Weight: 292.36

Storage: Keep away from moisture,Keep away from direct sunlight
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	YUKA1, a cell-permeable KDM5A inhibitor (IC50=2.66 μM) with a weak effect on KDM5C (IC50=7.12 μM) and no effect on other KDM isoforms, was able to increase the level of H3K4me3 in human cells and inhibit the proliferation of cancer cells, and also prevented the emergence of drug-resistant cells.
Targets(IC50)	Histone Demethylase
In vitro	YUKA1 selectively inhibits NEK2 autophosphorylation in human cancer cell lines (e.g., MDA-MB-231, BT20, MCF7), leading to mitotic arrest, spindle defects, polyploidy, and increased apoptosis at 10-30μM (24-48h). YUKA1 also enhances paclitaxel sensitivity[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (273.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4204 mL	17.1022 mL	34.2044 mL
5 mM	0.6841 mL	3.4204 mL	6.8409 mL
10 mM	0.342 mL	1.7102 mL	3.4204 mL
50 mM	0.0684 mL	0.342 mL	0.6841 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

Gale M, et al. Screen-identified selective inhibitor of lysine demethylase 5A blocks cancer cell growth and drug resistance. Oncotarget. 2016 Jun 28;7(26):39931-39944.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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