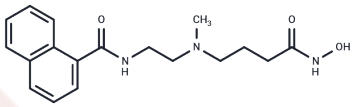
Data Sheet (Cat.No.T73387)

TargetMol

DKFZ-748

Chemical Properties



CAS No. : 2490709-68-5

Formula: C18H23N3O3

Molecular Weight: 329.39

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	DKFZ-748 is a selective HDAC10 inhibitor and has a dose-dependent growth inhibitory effect on HeLa cells.
Targets(IC50)	HDAC
In vitro	DKFZ-748 inhibits HeLa cell growth in a dose-dependent manner and induces HDAC acetylation in BE(2)-C cells (1-100μM, 72h), with significant effects observed only at the highest concentration (100μM). DKFZ-748 also causes dose-dependent accumulation of N8-acetyl- and N1,8-diacetylspermidine[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (242.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (10.02 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0359 mL	15.1796 mL	30.3591 mL
5 mM	0.6072 mL	3.0359 mL	6.0718 mL
10 mM	0.3036 mL	1.518 mL	3.0359 mL
50 mM	0.0607 mL	0.3036 mL	0.6072 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

Steimbach RR, et al. Aza-SAHA Derivatives Are Selective Histone Deacetylase 10 Chemical Probes That Inhibit Polyamine Deacetylation and Phenocopy HDAC10 Knockout. J Am Chem Soc. 2022 Oct 19;144(41):18861-18875.