DKFZ-748

Cat. No.:	HY-151590			
CAS No.:	2490709-68-5			
Molecular Formula:	C ₁₈ H ₂₃ N ₃ O ₃			
Molecular Weight:	329.39			
Target:	HDAC			
Pathway:	Cell Cycle/DNA Damage; Epigenetics			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

®

MedChemExpress

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (303.59 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		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	1.5180 mL	3.0359 mL		
	Please refer to the sol	ubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.59 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.59 mM); Clear solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.59 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIV	
BIOLOGICAL ACTIV	
Description	DKFZ-748 is a selective HDAC10 inhibitor (pIC ₅₀ =7.66), and shows anti-tumor activity ^[1] .
In Vitro	DKFZ-748 shows dose-dependent growth inhibition of HeLa cells in a polyamine-limiting in vitro tumor model ^[1] . DKFZ-748 (1-100 μM; 72 h) induces HDAC acetylation of BE(2)-C cells ^[1] . DKFZ 748 shows significant accumulation of N8 acetyl- and N1,8-diacetylspermidine in a dose-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]

Product Data Sheet

| _N_

N H O ↓ N OH H



Cell Line:	BE(2)-C cells
Concentration:	1, 10, 100 μΜ
Incubation Time:	72 h
Result:	Induced significant HDAC acetylation only at the highest tested concentration (100 $\mu\text{M}).$

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA