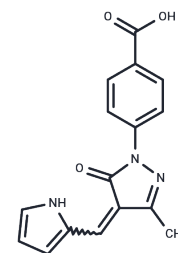


MC4033

Chemical Properties

CAS No. : 28532-21-0
 Formula: C₁₆H₁₃N₃O₃
 Molecular Weight: 295.29
 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	MC4033 is a selective lysine acetyltransferase 8 (KAT8) inhibitor (IC ₅₀ : 12.1 μM) with anticancer effects, induces apoptosis, and can be used for the study of non-small cell lung cancer.
Targets(IC ₅₀)	Apoptosis,Histone Acetyltransferase,Autophagy
In vitro	MC4033 (10, 25, 50, and 100 μM; 72 hours) exhibited dose-dependent antiproliferative effects in HCT116, H1299, A549, and U937 cell lines. In U937 cells, the inhibition rate of cell proliferation was 70% at 50 μM and >80% at 100 μM[1].

Solubility Information

Solubility	DMSO: 26.32 mg/mL (89.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (5.08 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3865 mL	16.9325 mL	33.865 mL
5 mM	0.6773 mL	3.3865 mL	6.773 mL
10 mM	0.3387 mL	1.6933 mL	3.3865 mL
50 mM	0.0677 mL	0.3387 mL	0.6773 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

Fiorentino F, et al. First-in-Class Selective Inhibitors of the Lysine Acetyltransferase KAT8. J Med Chem. 2023 May 25;66(10):6591-6616

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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