

MC4171

Chemical Properties

CAS No. :

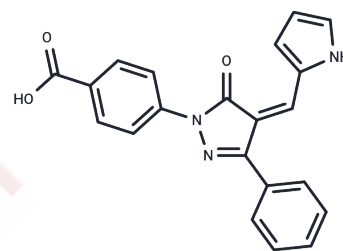
Formula: C₂₁H₁₅N₃O₃

Molecular Weight: 357.36

Store at low temperature

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	MC4171 is a selective KAT8 inhibitor with antiproliferative activity and can be used to study cancer.
Targets(IC ₅₀)	Histone Acetyltransferase
In vitro	KAT8 inhibitory activity and selectivity of MC4171, yielding an IC ₅₀ value of 8.2 μM. [1] Exposed each cell line for 72 h to increasing doses (10, 25, 50, 100 μM) of MC4171 and measured cell viability through the MTT-based colorimetric assay. [1] HT29 IC ₅₀ =54.0 ± 10.9 μM; HCT116 IC ₅₀ =46.6 ± 11.5 μM; H1299 IC ₅₀ =41.6 ± 6.8 μM; A549 IC ₅₀ =33.0 ± 5.7 μM; U937 IC ₅₀ =51.7 ± 9.5 μM [1]

Solubility Information

Solubility	DMSO: 20 mg/mL (55.97 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7983 mL	13.9915 mL	27.983 mL
5 mM	0.5597 mL	2.7983 mL	5.5966 mL
10 mM	0.2798 mL	1.3991 mL	2.7983 mL
50 mM	0.056 mL	0.2798 mL	0.5597 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481