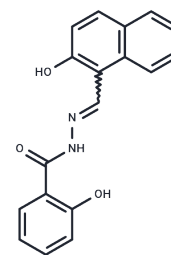


SD49-7

Chemical Properties

CAS No. : 54009-54-0
 Formula: C₁₈H₁₄N₂O₃
 Molecular Weight: 306.32
 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	SD49-7 is an inhibitor of histone lysine demethylase 4 (KDM4) with an IC ₅₀ of 0.19 μM.
Targets(IC ₅₀)	Histone Demethylase,DNA/RNA Synthesis

Solubility Information

Solubility	Ethanol: 4.5 mg/mL (14.69 mM),Sonication is recommended. DMSO: 54.9 mg/mL (179.22 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	3.2646 mL	16.3228 mL	32.6456 mL
5 mM	0.6529 mL	3.2646 mL	6.5291 mL
10 mM	0.3265 mL	1.6323 mL	3.2646 mL
50 mM	0.0653 mL	0.3265 mL	0.6529 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

Li Y, Wang C, Gao H, Gu J, Zhang Y, Zhang Y, Xie M, Cheng X, Yang M, Zhang W, Li Y, He M, Xu H, Zhang H, Ji Q, Ma T, Ding S, Zhao Y, Gao Y. KDM4 inhibitor SD49-7 attenuates leukemia stem cell via KDM4A/MDM2/p21CIP1 axis. Theranostics. 2022 Jun 21;12(11):4922-4934. doi: 10.7150/thno.71460. PMID: 35836814; PMCID: PMC9274755.

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