Data Sheet (Cat.No.T60359)

TargetMol

cis-4-Br-2,5-F2-PCPA

Chemical Properties

CAS No. :

Formula: C9H8BrF2N

Molecular Weight: 248.07

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	cis-4-Br-2,5-F2-PCPA (S1024) inhibits LSD1 and LSD2 with Ki values of 94 nM and 8.4 μM, respectively. It inhibits LSD1 cell proliferation and increases dimethylated histone H3 at K4 (H3K4) in CCRF-CEM cells, particularly where there is aberrant expression of LSD1 in cancer stem cells [1].
Targets(IC50)	Histone Demethylase,Others
In vitro	cis-4-Br-2,5-F2-PCPA (compound 7c) effectively suppresses the proliferation of T-cell acute lymphoblastic leukemia (T-ALL) cells, with IC50 values of 12 μM for CCRF-CEM and 16 μM for Jurkat lines, while demonstrating no cytotoxic effects on the human normal fibroblast cell line WI-38. Additionally, at a concentration of 20 μM over a 24-hour period, it significantly enhances dimethylated H3K4 (H3K4me2) levels by 2.9 times compared to the control, indicating its role as a chemical inhibitor of LSD1 and LSD2 enzymes, as evidenced by Western Blot Analysis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0311 mL	20.1556 mL	40.3112 mL
5 mM	0.8062 mL	4.0311 mL	8.0622 mL
10 mM	0.4031 mL	2.0156 mL	4.0311 mL
50 mM	0.0806 mL	0.4031 mL	0.8062 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481