Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

S 2101

Catalog No: tcsc0033145

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Specifications

CAS No:
1239262-36-2

Formula:
$C_{16}H_{16}ClF_2NO$

Pathway:
Epigenetics

Target:
Histone Demethylase

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
311.75

Product Description

S 2101 is a **lysine-specific demethylase 1** (**LSD1**) inhibitor with an **IC_{50}** of 0.99 μM, **K_i** of 0.61 μM and **K_{inact}/K_i** of 4560 M/s.

IC50 & Target: IC50: 0.99 μM (LSD1)[1]

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Ki: 0.61 μM (LSD1)[1]

In Vitro: S 2101 is a lysine-specific demethylase 1 (LSD1) inhibitor with an IC_{50} of 0.99 μM, K_i of 0.61 μM and K_{inact}/K_i of 4560 M/s. S 2101 also displays much lower inhibition activity toward MAO-B (K_i=17 μM, K_{inact}/K_i=18 M/s) and MAO-A (K_i=110 μM, K_{inact}/K_i=60 M/s). The treatment of HEK293T cells with S 2101 results in a dose-dependent increase in the level of H3K4me2, which must have accumulated by the inactivation of LSD1. During the course of S 2101 treatment, the amounts of histone H3 and LSD1 in the nuclear extracts remain essentially unaffected. Because the treatment with 1 μM S 2101 generates a level of H3K4me2 similar to that elicited by 50 μM 2-PCPA, S 2101 is assumed to have approximately 50-fold stronger LSD1 inhibition activity than 2-PCPA in human cells[1].