

Datasheet for ABIN7233293

SP2509[Go to Product page](#)**1** Image

Overview

Quantity: 5 mg

Application: Inhibition (Inh)

Product Details

Purpose: LSD1 Inhibitor

Characteristics: SP2509 is a potent (IC₅₀ = 13 nM), reversible, non-competitive inhibitor of histone demethylase LSD1 (KDM1A), selective over the closely related flavin enzymes MAO A & B, lactate dehydrogenase, several CYPs, or hERG. It inhibits growth and induces differentiation of cancer stem cells, e.g. AML progenitor cells, and promotes autophagy in neuroblastoma cells. It also causes cancer cell death independent of LSD1, possibly through downregulation of Bcl-2 and Mcl-1. Also inhibits HSV-1 infection by blocking viral DNA replication and gene expression.

Purity: >98 %

Chemical Name: (E)-N'-(1-(5-Chloro-2-hydroxyphenyl)ethylidene)-3-(morpholinosulfonyl)benzohydrazide

Formula: C₁₉H₂₀CIN₃O₅S

Solubility: Soluble in DMSO (up to at least 25 mg/ml)

Target Details

Background: Bcl,Epigenetics,Posttranslational modification,Protein demethylase,Cell death,Cancer Stem Cells,Infectious disease,Cancer,Autophagy,Chromatin

Molecular Weight: 437.90

CAS-No: 1423715-09-6

Application Details

Restrictions: For Research Use only

Handling

Format: Powder

Storage: -20 °C

Images

Molecule

Image 1. /

