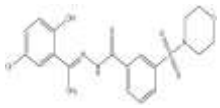
PRODUCT: SP-2509

ALTERNATE NAME: 3-(4-morpholinylsulfonyl)-benzoic acid (2E)-2-[1-(5-chloro-2-hydroxyphenyl)ethylidene]hydrazide

CATALOG #: 9446-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{19}H_{20}ClN_3O_5S$

MOLECULAR WEIGHT: 437.9

CAS NUMBER: 1423715-09-6

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (~ 25 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20℃. Protect from air and light

DESCRIPTION: SP-2509 is a reversible inhibitor of Lysine-specific demethylase (LSD1) (IC_{50} = 13 nM). It has no effect on monoamine oxidases A and B. SP2509 attenuates the binding of LSD1 to CoREST, allowing increased methylation of H3K4 and driving increased expression of p21, p27, and CCAAT/enhancer binding protein α in cultured acute myeloid leukemia (AML) cells.

REFERENCES:

Sorna, V., *et al.* (2013). *J. Med. Chem.* **56,** 9496-9508.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Caffeic acid **(Cat. No. 2303-50, 250)**
Clorgyline hydrochloride **(Cat. No. 2622-10, 50)**
Daminozide (**Cat. No. 2438-100, 500)**
Disulfiram **(Cat. No. 2308-10, 50)**
Ebselen **(Cat. No. 2169-5, 25)**
GSK-J4 hydrochloride **(Cat. No. 2259-1, 5)**
GSK-J4 (Free base) **(Cat. No. 2762-1,5)**
GSK-J1 sodium **(Cat. No. 2260-1, 5)**
GSK-J1 **(Cat. No. 2761-1,5)**
Harmine **(Cat. No. 2561-50, 250)**
IOX1 **(Cat. No. 2266-5, 25)**
Jumonji HDM Inhibitor, JOB-04 **(Cat. No. 2474-5, 25)**
Jumonji HDM Inhibitor, PBIT **(Cat. No. 2475-5, 25)**
β-Lapachone **(Cat. No. 2262-5, 25)**
ML-324 **(Cat. No. 2763-5, 25)**
OG-L002 **(Cat. No. 9406-5, 25)**
Pargyline hydrochloride **(Cat. No. 2618-500, 1000)**
2,4-PDCA **(Cat. No. 2304-100, 500)**
Rasagiline mesylate **(Cat. No. 2237-50, 250)**
Tranylcypromine hemisulfate **(Cat. No. 1816-25, 100)**

USAGE: ***FOR RESEARCH CH USE ONLY! Not to be used in humans***

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