

Certificate of Analysis

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Product Name:	GSK 2879552	Catalog No.:	8128	Batch No.:	1
CAS Number:	1902123-72-1				
IUPAC Name:	4-[[4-[[[(1 <i>R</i> ,2 <i>S</i>)-2-Phenylcyclopropyl]amino]methyl]-1-piperidinyl]methyl]benzoic acid dihydrochloride				

1. PHYSICAL AND CHEMICAL PROPERTIES

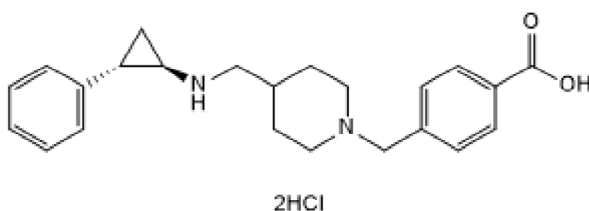
Batch Molecular Weight: 437.41

Physical Appearance: White solid

Solubility: DMSO to 50 mM
water to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

Chiral HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -51.7 (Concentration = 1, Solvent = Methanol)

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	63.16	6.91	6.4
Found	62.2	6.72	6.14

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

GSK 2879552 is a selective lysine-specific demethylase 1 (LSD1) inhibitor. When combined with other small molecules (EPZ-5676, N-methyl-d-aspartate and Bay K 8644), GSK 2879552 accelerates maturation of human pluripotent stem cell-derived neurons. GSK 2879552 inhibits the growth of small cell lung carcinoma (SCLC) and AML lines. In vivo, GSK 2879552 (1.5 mg/kg, p.o.) demonstrates tumor growth inhibition in SCLC xenograph mouse models.

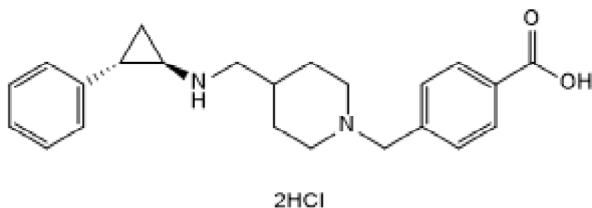
Physical and Chemical Properties:

Batch Molecular Weight: 437.41

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

water to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Hergenreder *et al* (2024) Combined small-molecule treatment accelerates maturation of human pluripotent stem cell-derived neurons. *Nat.Biotechnol.* **42** 1515. PMID: 38168993.

Mohammad *et al* (2015) A DNA hypomethylation signature predicts antitumor activity of LSD1 inhibitors in SCLC. *Cancer Cell* **28** 57. PMID: 26175415.

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