

Certificate of Analysis

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Product Name: GSK LSD 1 dihydrochloride

Catalog No.: 5361

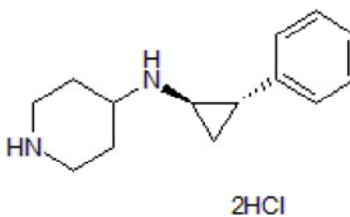
Batch No.: 2

CAS Number: 2102933-95-7

IUPAC Name: *rel-N*-[(1*S*,2*R*)-2-Phenylcyclopropyl]-4-piperidinamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₀N₂·2HCl
Batch Molecular Weight: 289.24
Physical Appearance: White solid
Solubility: water to 100 mM
 DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.13	7.67	9.69
Found	58.15	7.65	9.75

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

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Description:

Potent and selective lysine specific demethylase 1 (LSD1) inhibitor (IC₅₀ = 16 nM). Exhibits >1000-fold selectivity for LSD1 over closely related enzymes including LSD2, MAO-1 and MAO-B. Inhibits cancer cell line growth in vitro.

Physical and Chemical Properties:

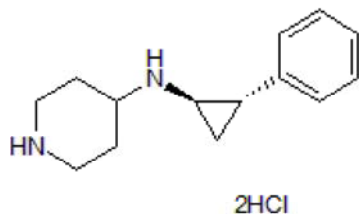
Batch Molecular Formula: C₁₄H₂₀N₂.2HCl

Batch Molecular Weight: 289.24

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 100 mM

DMSO to 100 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. Our standard recommendations are:

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.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the GSK LSD 1 probe summary on the SGC website.

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