

Product Name: RN 1 dihydrochloride

Catalog No.: 4977

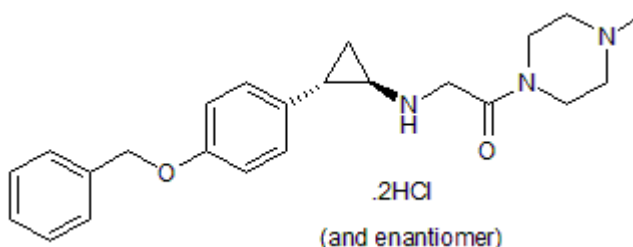
Batch No.: 2

CAS Number: 1781835-13-9

IUPAC Name: 1-(4-methyl-1-piperazinyl)-2-[[[(1*R**,2*S**)-2-[4-phenylmethoxy)phenyl]cyclopropyl]amino]ethanone dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₉N₃O₂·2HCl·H₂O
Batch Molecular Weight: 470.44
Physical Appearance: White solid
Solubility: water to 20 mM
DMSO to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.72	7.07	8.93
Found	58.74	7.16	8.83

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

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Description:

Potent lysine specific demethylase 1 (LSD1) inhibitor (IC_{50} = 70 nM). Exhibits selectivity for LSD1 over MAO-A and MAO-B (IC_{50} values are 0.51 and 2.79 μ M for MAO-A and MAO-B, respectively). Impairs long-term, but not short-term memory in mice. Brain penetrant following systemic administration.

Physical and Chemical Properties:

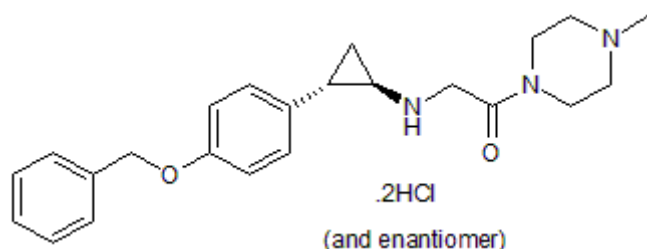
Batch Molecular Formula: $C_{23}H_{29}N_3O_2 \cdot 2HCl \cdot H_2O$

Batch Molecular Weight: 470.44

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



References:

Neelamegam et al (2012) Brain-penetrant LSD1 inhibitors can block memory consolidation. *ACS Chem.Neurosci.* **3** 120. PMID: 22754608.

Storage: Store at -20°C

Solubility & Usage Info:

water to 20 mM

DMSO to 20 mM with gentle warming

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.

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