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Print Date: Apr 29th 2016

Certificate of Analysis

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Product Name: **S 2101** **Catalog No.: 5714** **Batch No.: 1**

CAS Number: 1239262-36-2

IUPAC Name: (1*R*,2*S*)-*rel*-2-[3,5-Difluoro-2-(phenylmethoxy)phenyl]cycloprpanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{15}F_2NO.HCl$

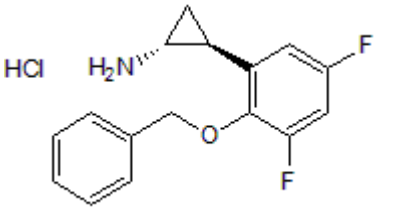
Batch Molecular Weight: 311.75

Physical Appearance: White solid

Solubility: water to 50 mM
DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



(and enantiomer)

2. ANALYTICAL DATA

HPLC: Shows >99.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.64	5.17	4.49
Found	61.4	5.15	4.6

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Description:

LSD1 inhibitor (IC_{50} = 990 nM; K_i = 610 nM). Exhibits selectivity for LSD1 over MAO-B and MAO-A (K_i values are 17 and 110 µM, respectively).

Physical and Chemical Properties:

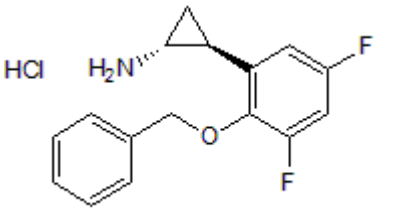
Batch Molecular Formula: $C_{16}H_{15}F_2NO.HCl$

Batch Molecular Weight: 311.75

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



(and enantiomer)

Storage: Store at +4°C

Solubility & Usage Info:

water to 50 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.

References:

Mimasu *et al* (2010) Structurally designed trans-2-phenylcyclopropylamine derivatives potently inhibit histone demethylase LSD1/KDM1. Biochemistry ***49*** 6494. PMID: 20568732.