

Product Name: RS 39604 hydrochloride

Catalog No.: 0991

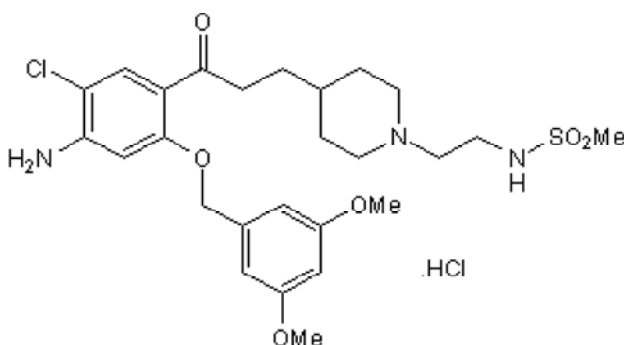
Batch No.: 3

CAS Number: 167710-87-4

IUPAC Name: 1-[4-Amino-5-chloro-2-(3,5-dimethoxyphenyl)methoxy]-3-[1-[2-methylsulphonylamino]ethyl]piperidin-4-yl]propan-1-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₆ClN₃O₆S.HCl.¼H₂O
Batch Molecular Weight: 595.06
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.48	6.35	7.06
Found	52.41	6.17	7.05

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

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Description:

A potent and selective 5-HT₄ antagonist, with a pK_i of 9.1 at 5-HT₄ receptors in guinea pig striatal membranes and greater than 1000-fold selectivity over 5-HT_{1A}, 2C, 3 and D₁, D₂, M₁, M₂, AT₁, B₁ and α_{1C} receptors. The ketone group gives RS 39604 a relatively long half life; it is also orally active and so suitable for in vivo studies.

Physical and Chemical Properties:

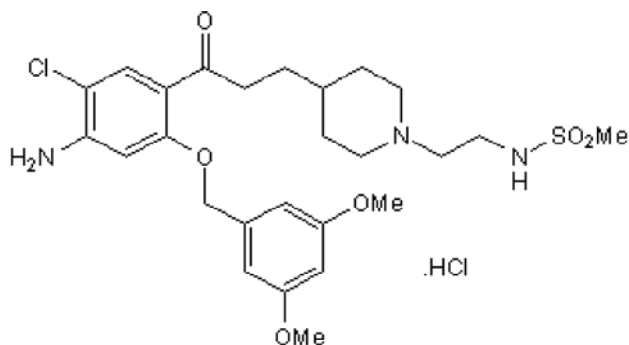
Batch Molecular Formula: C₂₆H₃₆ClN₃O₆S.HCl.¼H₂O

Batch Molecular Weight: 595.06

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

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:

Sold with the permission of Roche Bioscience

References:

Eglen et al (1995) Central 5-HT₄ receptors *TiPS* **16** 391. PMID: 8578609.

Hegde (1995) RS 39604: a potent, selective and orally active 5-HT₄ receptor antagonist. *Br.J.Pharmacol.* **115** 1087. PMID: 7582507.

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