

Certificate of Analysis

Product Name: RS 67333 hydrochloride

Catalog No.: 0989

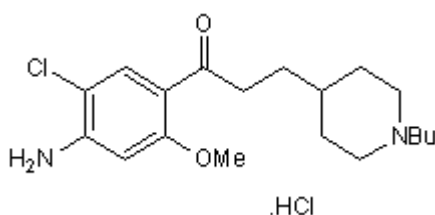
Batch No.: 7

CAS Number: 168986-60-5

IUPAC Name: 1-(4-Amino-5-chloro-2-methoxyphenyl)-3-[1-butyl-4-piperidinyl]-1-propanone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{29}ClN_2O_2 \cdot HCl \cdot \frac{1}{4}H_2O$
Batch Molecular Weight: 393.86
Physical Appearance: White solid
Solubility: water to 25 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.55$ (Dichloromethane:Methanol:Ammonia soln. [9:1:4])
HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.94	7.8	7.02
Found	58.06	7.71	7.11

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Description:

A potent and highly selective 5-HT₄ partial agonist, with pK_i values of 8.7 at 5-HT₄ sites in guinea pig striatum and > 6 at various other receptors, including 5-HT_{1A}, 1D, 2A, 2C, D₁, D₂ and M₁₋₃. Active in vivo, with an intrinsic activity relative to 5-HT of 0.5.

Physical and Chemical Properties:

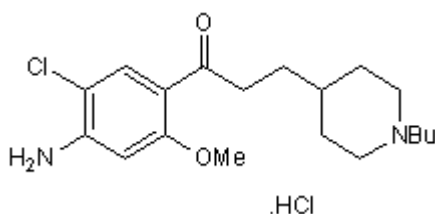
Batch Molecular Formula: C₁₉H₂₉ClN₂O₂.HCl.¼H₂O

Batch Molecular Weight: 393.86

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 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.

References:

Eglen et al (1995) Pharmacological characterization of two novel and potent 5-HT₄ receptor agonists, RS 67333 and RS 67506, *in vitro* and *in vivo*. *Br.J.Pharmacol.* **115** 1387. PMID: 8564196.

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

Fontana et al (1997) The effects of novel, selective 5-hydroxytryptamine (5HT)₄ receptor ligands in rat spatial navigation. *Neuropharmacology* **36** 689. PMID: 9225295.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956