

Certificate of Analysis

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Product Name: RS 127445 hydrochloride

Catalog No.: 2993

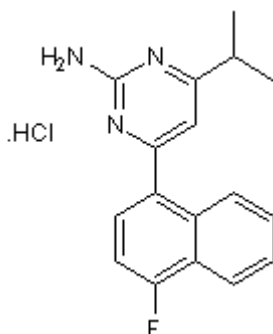
Batch No.: 3

CAS Number: 199864-86-3

IUPAC Name: 4-(4-Fluoro-1-naphthalenyl)-6-(1-methylethyl)-2-pyrimidinamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₆FN₃·HCl
Batch Molecular Weight: 317.79
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Desiccate 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	64.25	5.39	13.22
Found	64.32	5.4	13.17

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

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Description:

High affinity 5-HT_{2B} receptor antagonist (pK_i = 9.5). Displays 1000-fold selectivity for 5-HT_{2B} with good bioavailability.

Physical and Chemical Properties:

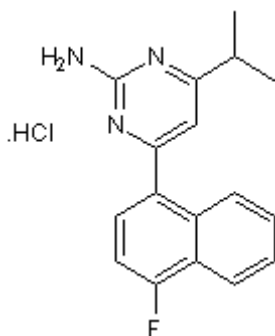
Batch Molecular Formula: C₁₇H₁₆FN₃.HCl

Batch Molecular Weight: 317.79

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

Callebert et al (2006) Evidence for a control of plasma serotonin levels by 5-Hydroxytryptamine_{2B} receptors in mice. *J.Pharmacol.Exp.Ther.* **317** 724. PMID: 16461587.

Bonhaus et al (1999) RS-127445: a selective, high affinity, orally bioavailable 5-HT_{2B} receptor antagonist. *Br.J.Pharmacol.* **127** 1075. PMID: 10455251.

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