

Certificate of Analysis

Product Name: CP 94253 hydrochloride

Catalog No.: 1317

Batch No.: 4

CAS Number: 845861-39-4

IUPAC Name: 5-Propoxy-3-(1,2,3,6-tetrahydro-4-pyridinyl)-1*H*-pyrrolo[3,2-*b*]pyridine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₉N₃O.HCl.¼H₂O

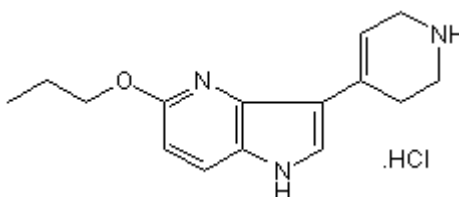
Batch Molecular Weight: 298.3

Physical Appearance: Yellow solid

Solubility:
water to 25 mM
DMSO to 100 mM
ethanol to 25 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	60.4	6.93	14.09	11.89
Found	60.3	7.03	14.06	12.18

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IUPAC Name: 5-Propoxy-3-(1,2,3,6-tetrahydro-4-pyridinyl)-1H-pyrrolo[3,2-b]pyridine hydrochloride

Description:

Potent, selective 5-HT_{1B} agonist (K_i values are 89, 2, 860, 49 and 1,600 nM for 5-HT_{1A}, 5-HT_{1B}, 5-HT_{1C}, 5-HT_{1D} and 5-HT₂ receptors respectively). Centrally active upon systemic administration in vivo.

Physical and Chemical Properties:

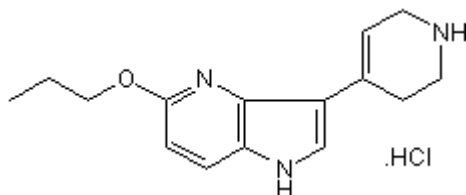
Batch Molecular Formula: C₁₅H₁₉N₃O.HCl.¼H₂O

Batch Molecular Weight: 298.3

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 25 mM
DMSO to 100 mM
ethanol to 25 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:

Knobelman et al (2000) Regulation of extracellular concentrations of 5-hydroxytryptamine (5-HT) in mouse striatum by 5-HT_{1A} and 5-HT_{1B} receptors. *J.Pharmacol.Exp.Ther.* **292** 1111. PMID: 10688630.

Fish et al (1999) Aggression heightened by alcohol or social instigation in mice: reduction by the 5-HT(1B) receptor agonist CP-94,253. *Psychopharmacology* **146** 391. PMID: 10550489.

Koe et al (1992) Biochemical and behavioral studies of the 5-HT_{1B} receptor agonist, CP-94,253. *Drug Dev.Res.* **26** 241.

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