

Certificate of Analysis

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Product Name: PNU 177864 hydrochloride

Catalog No.: 3355

Batch No.: 1

CAS Number: 1783978-03-9

IUPAC Name: *N*-[4-[2-(Propylamino)ethyl]phenyl]-4-(trifluoromethoxy)-benzenesulfonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₁F₃N₂O₃S.HCl

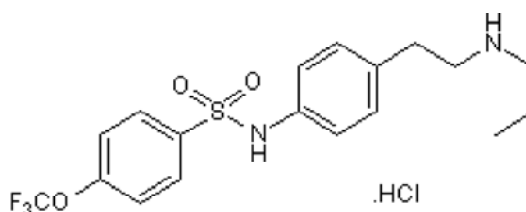
Batch Molecular Weight: 438.89

Physical Appearance: White solid

Solubility: water to 20 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Dichloromethane:Methanol [9:1])

HPLC: Shows >99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	49.26	5.05	6.38
Found	49.35	5.1	6.45

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

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IUPAC Name: N-[4-[2-(Propylamino)ethyl]phenyl]-4-(trifluoromethoxy)-benzenesulfonamide hydrochloride

Description:

Highly selective dopamine D₃ receptor antagonist. Induces phospholipidosis and exhibits antischizophrenic activity in vivo.

Physical and Chemical Properties:

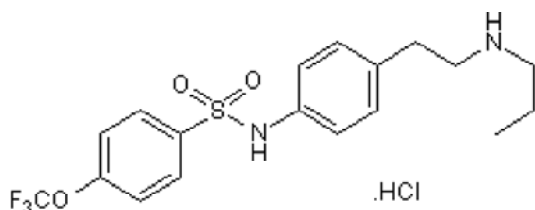
Batch Molecular Formula: C₁₈H₂₁F₃N₂O₃S.HCl

Batch Molecular Weight: 438.89

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 20 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:

Rudmann *et al* (2004) Epididymal and systemic phospholipidosis in rats and dogs treated with DA D3 selective antagonist PNU-177864. *Toxicol.Pathol.* **32** 326. PMID: 15204974.

Vonderfecht *et al* (2004) Myopathy related to administration of a cationic amphiphilic drug and the use of multidose drug distribution analysis to predict its occurrence. *Toxicol.Pathol.* **32** 318. PMID: 15204973.

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