

Product Name: Rotigotine hydrochloride

Catalog No.: 3896

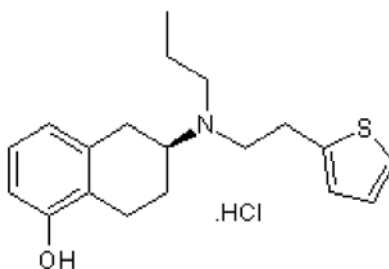
Batch No.: 3

CAS Number: 125572-93-2

IUPAC Name: (6S)-5,6,7,8-Tetrahydro-6-[propyl[2-(2-thienyl)ethyl]amino]-1-naphthalenol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₅NOS.HCl
Batch Molecular Weight: 351.93
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -56.4 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.84	7.45	3.98
Found	64.88	7.53	3.76

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

Product Name: Rotigotine hydrochloride

Catalog No.: 3896

Batch No.: 3

CAS Number: 125572-93-2

IUPAC Name: (6S)-5,6,7,8-Tetrahydro-6-[propyl[2-(2-thienyl)ethyl]amino]-1-naphthalenol hydrochloride

Description:

Dopamine D₂ and D₃ receptor agonist. K_i values are 13 and 0.71 nM for D₂ and D₃ respectively. Also has significant affinity for 5-HT_{1A} and adrenergic α_{2B} receptors. Exhibits antiparkinsonian activity.

Physical and Chemical Properties:

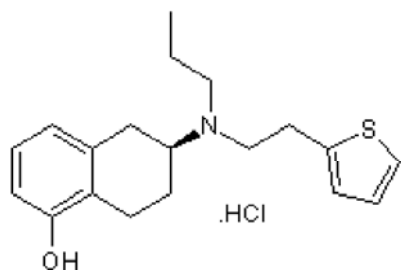
Batch Molecular Formula: C₁₉H₂₅NOS.HCl

Batch Molecular Weight: 351.93

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Scheller *et al* (2009) The in vitro receptor profile of rotigotine: a new agent for the treatment of Parkinson's disease. *Naunyn-Schmiedeberg's Arch. Pharmacol.* **379** 73. PMID: 18704368.

Belluzzi *et al* (2004) N-0923, a selective dopamine D₂ receptor agonist, is efficacious in rat and monkey models of Parkinson's disease. *Mov. Disord.* **9** 147.

Storage: Desiccate at RT

Solubility & Usage Info:

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.

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

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