

Certificate of Analysis

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Product Name: Pramipexole dihydrochloride

Catalog No.: 4174

Batch No.: 1

CAS Number: 104632-25-9

IUPAC Name: (S)-2-Amino-4,5,6,7-tetrahydro-6-(propylamino)benzothiazole dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₇N₃S.2HCl

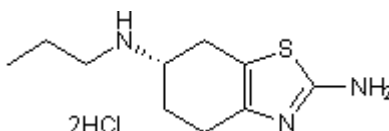
Batch Molecular Weight: 284.25

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -67 (Concentration = 1, Solvent = Methanol)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.25	6.74	14.78
Found	42.19	6.74	14.64

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

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Description:

Dopamine receptor agonist exhibiting selectivity for the D₃ receptor (K_i values are 0.5, 3.3, 3.9 and 3.9 nM for D₃, D_{2S}, D_{2L} and D₄ receptors respectively). Exhibits negligible affinity for D₁ and D₅ receptors. Displays activity in the treatment of Parkinson's disease.

Physical and Chemical Properties:

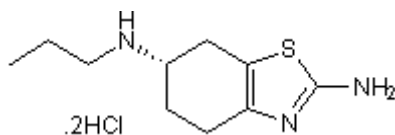
Batch Molecular Formula: C₁₀H₁₇N₃S.2HCl

Batch Molecular Weight: 284.25

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Mierau et al (1995) Pramipexole binding and activation of cloned and expressed dopamine D₂, D₃ and D₄ receptors. *Eur.J.Pharmacol.* **290** 29. PMID: 7664822.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 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.

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