

**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:** C<sub>10</sub>H<sub>17</sub>N<sub>3</sub>S.2HCl

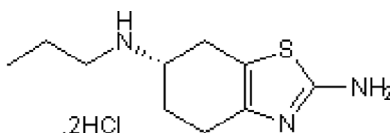
**Batch Molecular Weight:** 284.25

**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 99.4% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = -67 (Concentration = 1, Solvent = Methanol)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	42.25	6.74	14.78
Found	42.19	6.74	14.64

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**Description:**

Pramipexole dihydrochloride is a dopamine receptor agonist exhibiting selectivity for the D<sub>3</sub> receptor (K<sub>i</sub> values are 0.5, 3.3, 3.9 and 3.9 nM for D<sub>3</sub>, D<sub>2S</sub>, D<sub>2L</sub> and D<sub>4</sub> receptors respectively). Exhibits negligible affinity for D<sub>1</sub> and D<sub>5</sub> receptors. Displays activity in the treatment of Parkinson's disease.

**Physical and Chemical Properties:**

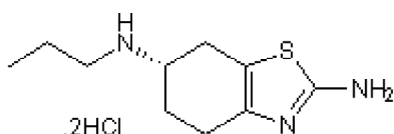
Batch Molecular Formula: C<sub>10</sub>H<sub>17</sub>N<sub>3</sub>S.2HCl

Batch Molecular Weight: 284.25

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

Mierau *et al* (1995) Pramipexole binding and activation of cloned and expressed DA D<sub>2</sub>, D<sub>3</sub> and D<sub>4</sub> receptors. *Eur.J.Pharmacol.* **290** 29. PMID: 7664822.

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