

Product Name: Ropinirole

Catalog No.: 3680

Batch No.: 4

CAS Number: 91374-20-8

IUPAC Name: 4-[2-(Dipropylamino)ethyl]-1,3-dihydro-2H-indol-2-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₄N₂O.HCl.

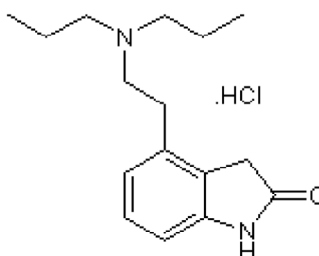
Batch Molecular Weight: 296.84

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 50 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

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.74	8.49	9.44
Found	64.84	8.45	9.36

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

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CAS Number: 91374-20-8

IUPAC Name: 4-[2-(Dipropylamino)ethyl]-1,3-dihydro-2H-indol-2-one hydrochloride

Description:

Ropinirole is a selective D₂-like receptor agonist (D₃ > D₂ > D₄). Causes biphasic spontaneous locomotor activity and contralateral circling in 6-OHDA-lesioned mice. Displays anti-Parkinsonian activity.

Physical and Chemical Properties:

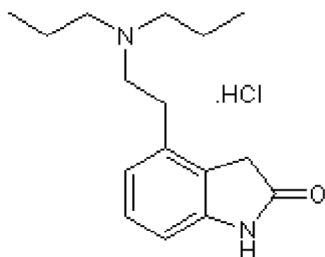
Batch Molecular Formula: C₁₆H₂₄N₂O.HCl.

Batch Molecular Weight: 296.84

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 50 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:

Tulloch (1997) Pharmacologic profile of ropinirole: a nonergoline DA agonist. *Neurology* **49** S58. PMID: 9222275.

Eden et al (1991) Preclinical pharmacology of ropin. (SK&F 101468-A) a novel DA D₂ agonist. *Pharmacol.Biochem.Behav.* **38** 147. PMID: 1673248.

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