

**Product Name:** Ropinirole

**Catalog No.:** 3680

**Batch No.:** 3

CAS Number: 91374-20-8

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>24</sub>N<sub>2</sub>O.HCl.

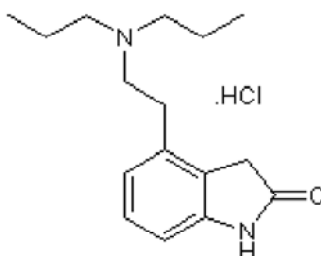
**Batch Molecular Weight:** 296.84

**Physical Appearance:** Yellow solid

**Solubility:** water to 100 mM  
DMSO to 50 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.3% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.74	8.49	9.44
Found	64.79	8.6	9.49

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

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**Description:**

Ropinirole is a selective D<sub>2</sub>-like receptor agonist (D<sub>3</sub> > D<sub>2</sub> > D<sub>4</sub>). Causes biphasic spontaneous locomotor activity and contralateral circling in 6-OHDA-lesioned mice. Displays anti-Parkinsonian activity.

**Physical and Chemical Properties:**

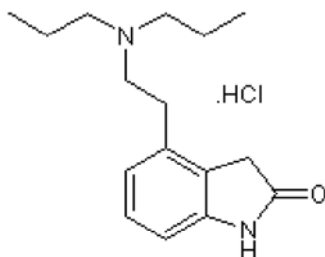
Batch Molecular Formula: C<sub>16</sub>H<sub>24</sub>N<sub>2</sub>O.HCl.

Batch Molecular Weight: 296.84

Physical Appearance: Yellow solid

**Minimum Purity:** ≥99%

**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. 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:**

**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 D<sub>2</sub> agonist. *Pharmacol.Biochem.Behav.* **38** 147. PMID: 1673248.

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