

**Product Name:** (-)-Quinpirole hydrochloride

**Catalog No.:** 1061

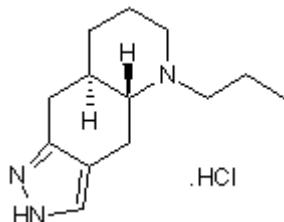
**Batch No.:** 15

**CAS Number:** 85798-08-9

**IUPAC Name:** (4a*R*-trans)-4,4a,5,6,7,8,8a,9-Octahydro-5-propyl-1*H*-pyrazolo[3,4-*g*]quinoline hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>13</sub>H<sub>21</sub>N<sub>3</sub>.HCl  
**Batch Molecular Weight:** 255.79  
**Physical Appearance:** Cream solid  
**Solubility:** water to 100 mM  
DMSO to 25 mM  
**Storage:** Desiccate at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.2 (Dichloromethane:Methanol [19:1])  
**HPLC:** Shows >99.9% purity  
**Chiral HPLC:** Shows >99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -135.9 (Concentration = 0.5, Solvent = Water)  
**Microanalysis:** Carbon Hydrogen Nitrogen  

Theoretical	61.04	8.67	16.43
Found	61.07	8.68	16.39

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

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**Description:**

Selective dopamine D<sub>2</sub> receptor agonist (K<sub>i</sub> values are 4.8, ~24, ~30 and 1900 nM at D<sub>2</sub>, D<sub>3</sub>, D<sub>4</sub> and D<sub>1</sub> receptors respectively).

**Physical and Chemical Properties:**

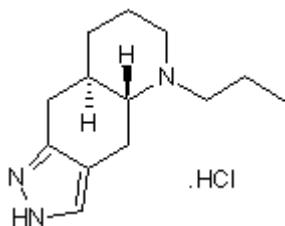
Batch Molecular Formula: C<sub>13</sub>H<sub>21</sub>N<sub>3</sub>.HCl

Batch Molecular Weight: 255.79

Physical Appearance: Cream solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

water to 100 mM

DMSO 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.

**References:**

**Seeman and Van Tol** (1994) Dopamine receptor pharmacology. *Trends Pharmacol. Sci.* **15** 264. PMID: 7940991.

**Levant et al** (1996) Modulation of [<sup>3</sup>H]quinpirole binding in brain by monoamine oxidase inhibitors: evidence for a potential novel binding site. *J.Pharmacol.Exp.Ther.* **278** 145. PMID: 8764345.

**Sullivan et al** (1998) Effects of quinpirole on central dopamine systems in sensitized and non-sensitized rats. *Neuroscience* **83** 781. PMID: 9483561.

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