

Product Name: (-)-Quinpirole hydrochloride

Catalog No.: 1061

Batch No.: 18

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: C₁₃H₂₁N₃.HCl.¾H₂O

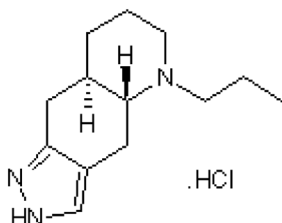
Batch Molecular Weight: 269.3

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 25 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

Chiral HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -114.4 (Concentration = 0.5, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.98	8.8	15.6
Found	58	8.83	15.62

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Description:

(-)-Quinpirole hydrochloride is a selective dopamine D₂ receptor agonist (K_i values are 4.8, ~24, ~30 and 1900 nM at D₂, D₃, D₄ and D₁ receptors respectively).

Physical and Chemical Properties:

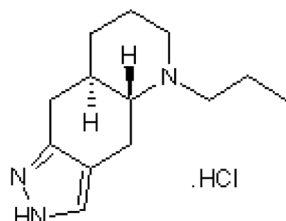
Batch Molecular Formula: C₁₃H₂₁N₃.HCl.¾H₂O

Batch Molecular Weight: 269.3

Physical Appearance: White 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. *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.

Licensing Information:

Sold with the permission of Eli Lilly and Company

References:

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

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

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

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