

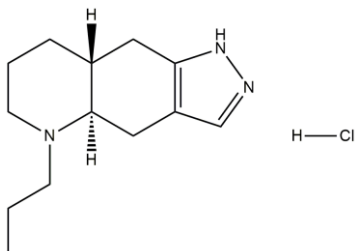
# (-)-Quinpirole hydrochloride

02/20

**ALTERNATE NAMES:** (4aR,8aR)-5-propyl-1,4,4a,6,7,8,8a,9-octahydropyrazolo[3,4-g]quinoline,hydrochloride; (4aR-trans)-4,4a,5,6,7,8,8a,9-Octahydro-5-propyl-1H-pyrazolo[3,4-g]quinoline hydrochloride; LY 171555; Dopamine D<sub>2</sub> Receptor Agonist

**CATALOG #:** B2994-5 5 mg  
B2994-25 25 mg

## STRUCTURE:



**MOLECULAR FORMULA:** C<sub>13</sub>H<sub>22</sub>ClN<sub>3</sub>

**MOLECULAR WEIGHT:** 255.79

**CAS NUMBER:** 85798-08-9

**APPEARANCE:** Off-white powder

**PURITY:** >98%

**SOLUBILITY:** ~25 mg/ml in Water  
~6 mg/ml in DMSO

**DESCRIPTION:** Quinpirole is a dopamine D<sub>2</sub> receptor agonist with K<sub>i</sub> values of 4.8 nM, 24 nM, 30nM and 1900 nM at D<sub>2</sub>, D<sub>3</sub>, D<sub>4</sub> and D<sub>1</sub> receptors respectively. Quinpirole inhibits single pulse dopamine overflow in a concentration-dependent manner with an IC<sub>50</sub> of 32.5 nM.

**STORAGE TEMPERATURE:** -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCES:**

1. Seeman, P., Schaus, J.M. Dopamine receptors labelled by [3H]quinpirole. Eur J Pharmacol. 203(1):105-9 (1991).
2. Malmberg A., Mohell, N. Characterization of [3H]quinpirole binding to human dopamine D<sub>2A</sub> and D<sub>3</sub> receptors: effects of ions and guanine nucleotides. J Pharmacol Exp Ther. 274(2):790-7 (1995).
3. O'Neill, C., Evers-Donnelly, A., Nicholson, D., et al. D<sub>2</sub> receptor-mediated inhibition of dopamine release in the rat striatum in vitro is modulated by CB<sub>1</sub> receptors: studies using fast cyclic voltammetry. J Neurochem. 108(3):545-51 (2009).
4. Levant, B., Moehlenkamp, J.D., Morgan, K.A., et al. Modulation of [3H]quinpirole binding in brain by monoamine oxidase inhibitors: evidence for a potential novel binding site. J Pharmacol Exp Ther. 278(1):145-53 (1996).

## RELATED PRODUCTS:

Apomorphine Hydrochloride Hemihydrate (Cat. No. B1541)  
 Bromocryptine (mesylate) (Cat. No. 2916)  
 Pimozide (Cat. No. 1887)  
 Sertraline (hydrochloride) (Cat. No. B2393)  
 Aripiprazole (Cat. No. B1186)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*