

Certificate of Analysis

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Product Name: A 68930 hydrochloride

Catalog No.: 1534

Batch No.: 6

CAS Number: 130465-39-3

IUPAC Name: *cis*-(±)-1-(Aminomethyl)-3,4-dihydro-3-phenyl-1*H*-2-benzopyran-5,6-diol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₇NO₃.HCl

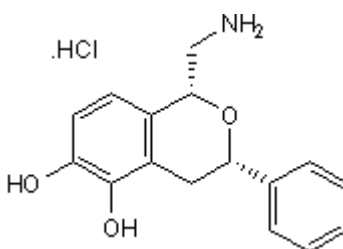
Batch Molecular Weight: 307.78

Physical Appearance: Off-white solid

Solubility: water to 50 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.26 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows >99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.44	5.89	4.55
Found	62.2	5.83	4.52

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

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Description:

Potent and selective D₁-like dopamine receptor agonist (EC₅₀ values are 2.1 and 3910 nM for D₁-like and D₂-like receptors respectively). Centrally active following systemic administration in vivo.

Physical and Chemical Properties:

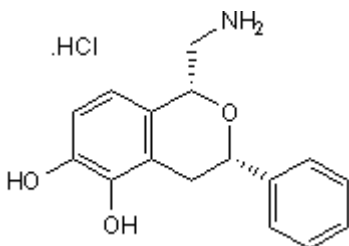
Batch Molecular Formula: C₁₆H₁₇NO₃·HCl

Batch Molecular Weight: 307.78

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water 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:

Kebabian et al (1990) A68930: a potent and specific agonist for the D-1 dopamine receptor. *Am.J.Hypertens.* **3** 40S. PMID: 2143387.

Quaglia et al (1990) (1*R*,3*S*)-1-(Aminomethyl)-3,4-dihydro-5,6-dihydroxy-3-phenyl-1*H*-2-benzopyran: a potent and selective D1 agonist. *J.Med.Chem.* **33** 2948. PMID: 1977907.

Deveney and Waddingto (1997) Psychopharmacological distinction between novel full-efficacy "D1-like" dopamine receptor agonists. *Pharmacol.Biochem.Behav.* **58** 551. PMID: 9300618.

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