

Product Name: A 68930 hydrochloride

Catalog No.: 1534

Batch No.: 7

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.¾H₂O

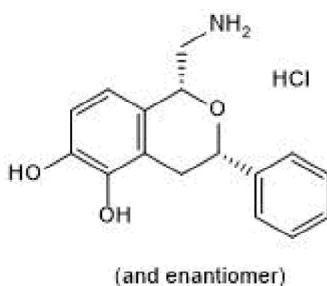
Batch Molecular Weight: 321.29

Physical Appearance: Grey solid

Solubility: water to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.81	6.12	4.36
Found	58.95	5.89	4.28

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

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Description:

A 68930 hydrochloride is a 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:

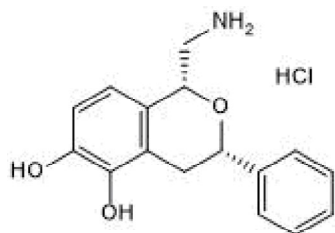
Batch Molecular Formula: C₁₆H₁₇NO₃.HCl.¾H₂O

Batch Molecular Weight: 321.29

Physical Appearance: Grey solid

Minimum Purity: ≥98%

Batch Molecular Structure:



(and enantiomer)

Storage: Store at -20°C. This product is packaged under an inert atmosphere.

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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. *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.

References:

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

Kebabian et al (1990) A68930: a potent and specific agonist for the D-1 DA 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.

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