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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **Fenoldopam hydrochloride** **Catalog No.: 1659** **Batch No.: 1**

CAS Number: 181217-39-0

IUPAC Name: 6-Chloro-2,3,4,5-tetrahydro-1-(4-hydroxyphenyl)-1*H*-3-benzazepine-7,8-diol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{16}ClNO_3.HCl$

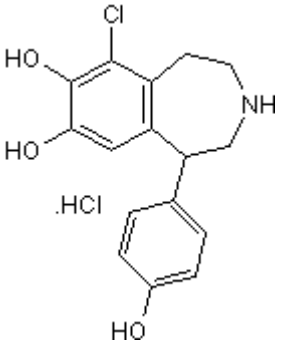
Batch Molecular Weight: 342.22

Physical Appearance: Tan solid

Solubility: water to 10 mM
DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: At 270°C(dec)

HPLC: Shows >98.1% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.16	5.01	4.09
Found	56.07	5.06	4.01

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Description:

Selective D_1-like dopamine receptor partial agonist (EC_{50} = 57 nM). Vasodilator in vivo and does not readily cross the blood-brain barrier. Also α_2-adrenoceptor antagonist in vitro (K_i = 15 - 25 nM).

Physical and Chemical Properties:

Batch Molecular Formula: $C_{16}H_{16}ClNO_3.HCl$

Batch Molecular Weight: 342.22

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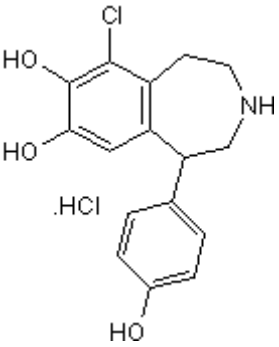
Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 10 mM
DMSO to 100 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:

Hahn *et al* (1982) Characterization of the peripheral and central effects of SK&F 82526, a novel dopamine receptor agonist. J.Pharmacol.Exp.Ther. ***223*** 305. PMID: 6127401.

Sibley *et al* (1982) Interactions of novel dopaminergic ligands with D-1 and D-2 dopamine receptors. Life Sci. ***31*** 637. PMID: 6127585.

Nichols *et al* (1990) The pharmacology of fenoldopam. Am.J.Hypertens. ***3*** 116S. PMID: 1974439.

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