

**Product Name:** BF 2649 hydrochloride

**Catalog No.:** 3743

**Batch No.:** 2

CAS Number: 903576-44-3

IUPAC Name: 1-[3-[3-(4-Chlorophenyl)propoxy]propyl]-piperidine hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>26</sub>ClNO.HCl

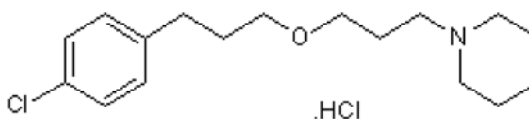
**Batch Molecular Weight:** 332.31

**Physical Appearance:** Off White solid

**Solubility:**  
water to 100 mM  
DMSO to 100 mM  
ethanol to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.15 (Chloroform:Methanol [95:5])

**HPLC:** Shows >98.8% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.44	8.19	4.21
Found	61.13	8.26	3.98

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**Description:**

Potent and selective histamine H<sub>3</sub> receptor inverse agonist (EC<sub>50</sub> = 1.5 nM, K<sub>i</sub> = 0.16 nM). Exhibits nootropic effects in cognitive disorders; reduces locomotor hyperactivity induced by methamphetamine. Brain penetrant.

**Physical and Chemical Properties:**

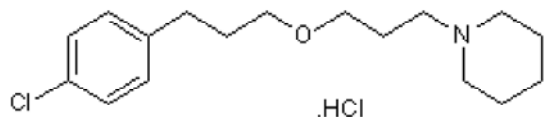
Batch Molecular Formula: C<sub>17</sub>H<sub>26</sub>ClNO.HCl

Batch Molecular Weight: 332.31

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM  
DMSO to 100 mM  
ethanol 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:**

**Ligneau et al** (2007) Brain histamine and schizophrenia: potential therapeutic applications of H<sub>3</sub>-receptor inverse agonists studied with BF2.649. *Biochem.Pharmacol.* **73** 1215. PMID: 17343831.

**Ligneau et al** (2007) BF2.649 [1-{3-[3-(4-chlorophenyl)propoxy]propyl}piperidine, hydrochloride], a nonimidazole inverse agonist/antagonist at the human histamine H<sub>3</sub> receptor: Preclinical pharmacology. *J.Pharm.Exp.Ther.* **320** 365. PMID: 17005916 .

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