

**Product Name:** Vilazodone hydrochloride

**Catalog No.:** 6202

**Batch No.:** 1

CAS Number: 163521-08-2

IUPAC Name: 5-[4-[4-(5-Cyano-1*H*-indol-3-yl)butyl]-1-piperazinyl]-2-benzofurancarboxamide hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>27</sub>N<sub>5</sub>O<sub>2</sub>.HCl.½H<sub>2</sub>O

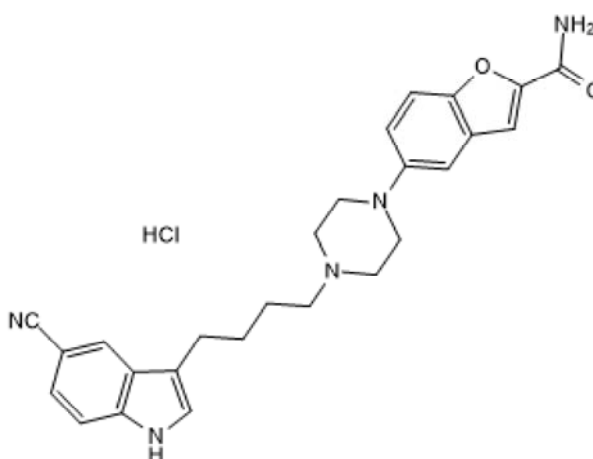
**Batch Molecular Weight:** 487

**Physical Appearance:** White solid

**Solubility:** DMSO to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	64.12	6	14.38	7.28
Found	63.92	5.78	14.23	7.17

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

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**Description:**

Vilazodone hydrochloride is a potent 5-HT<sub>1A</sub> partial agonist and serotonin-selective reuptake inhibitor (SSRI) (IC<sub>50</sub> values are 0.2 and 0.5 nM respectively). Antidepressant.

**Physical and Chemical Properties:**

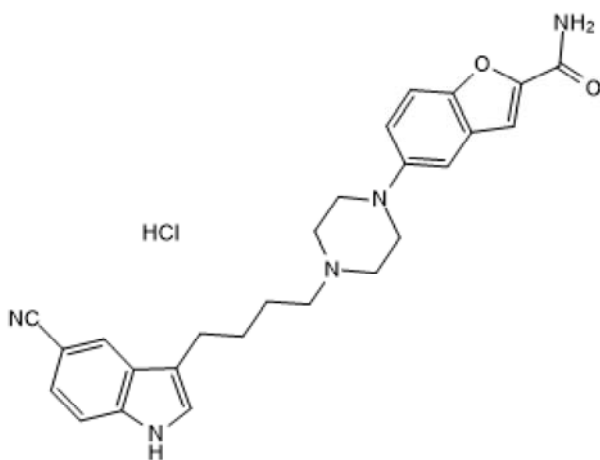
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Batch Molecular Weight: 487

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 20 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:**

**Hughes et al** (2005) Neurochemical evaluation of the novel 5-HT<sub>1A</sub> receptor partial agonist/serotonin reuptake inhibitor, vilazodone. *Eur.J.Pharmacol.* **510** 49. PMID: 15740724.

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