

Certificate of Analysis

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: $C_{26}H_{27}N_5O_2 \cdot HCl \cdot \frac{1}{2}H_2O$

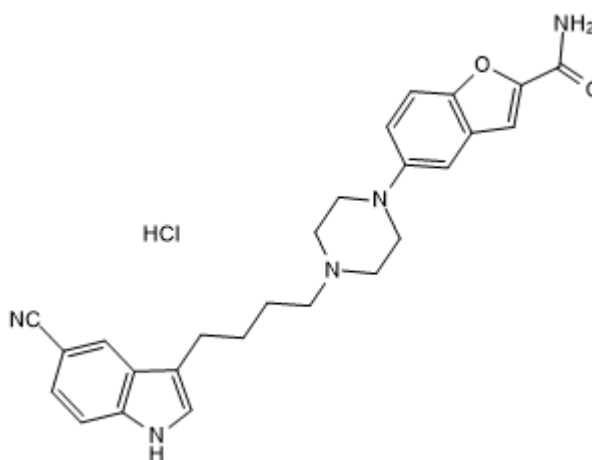
Batch Molecular Weight: 487

Physical Appearance: White solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H 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:

Potent 5-HT_{1A} partial agonist and serotonin-selective reuptake inhibitor (SSRI) (IC₅₀ values are 0.2 and 0.5 nM respectively). Antidepressant.

Physical and Chemical Properties:

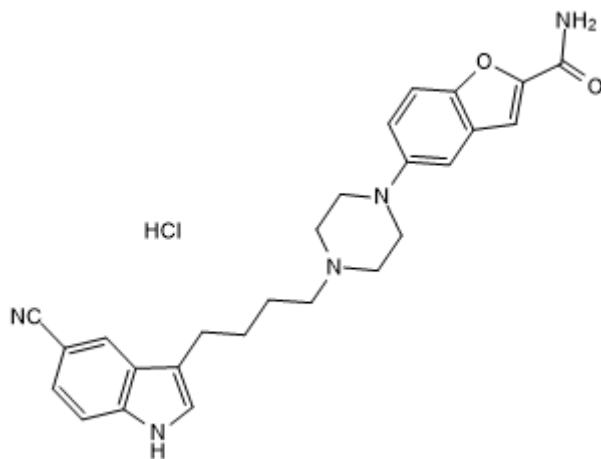
Batch Molecular Formula: C₂₆H₂₇N₅O₂.HCl.½H₂O

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_{1A} receptor partial agonist/serotonin reuptake inhibitor, vilazodone. *Eur.J.Pharmacol.* **510** 49. PMID: 15740724.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956