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- Expressversand

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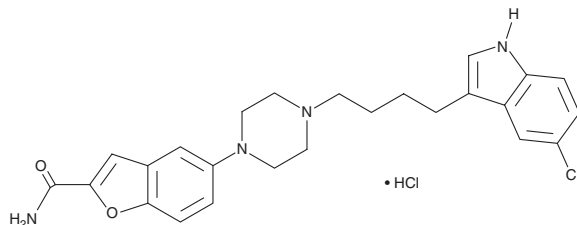
PRODUCT INFORMATION



Vilazodone (hydrochloride)

Item No. 21547

CAS Registry No.: 163521-08-2
Formal Name: 5-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-benzofurancarboxamide
Synonyms: EMD 68843, SB 659746A
MF: C₂₆H₂₇N₅O₂ • HCl
FW: 478.0
Purity: ≥95%
UV/Vis.: λ_{max}: 241, 271 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Vilazodone (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the vilazodone (hydrochloride) in the solvent of choice. Vilazodone (hydrochloride) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of vilazodone (hydrochloride) in these solvents is approximately 30 and 5 mg/ml, respectively.

Vilazodone (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, vilazodone (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Vilazodone (hydrochloride) has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Vilazodone is a selective serotonin reuptake inhibitor (SSRI) and a partial agonist of the serotonin (5-HT) receptor subtype 5-HT_{1A} (IC₅₀'s = 0.2 and 0.5 nM, respectively).¹ It increases extracellular 5-HT in the rat ventral hippocampus and frontal cortex when administered intraperitoneally at doses of 1 and 3 mg/kg. Vilazodone (1 mg/kg, i.p.) decreases immobility in the forced swim test in both rats and mice. Formulations containing vilazodone have been used in the treatment of depression.

Reference

1. Page, M.E., Cryan, J.F., Sullivan, A., *et al.* Behavioral and neurochemical effects of 5-(4-[4-(5-Cyano-3-indolyl)-butyl]-butyl)-1-piperazinyl)-benzofuran-2-carboxamide (EMD 68843): A combined selective inhibitor of serotonin reuptake and 5-hydroxytryptamine_{1A} receptor partial agonist. *J. Pharmacol. Exp. Ther.* **302**(3), 1220-1227 (2002).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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