

Vilazodone (Hydrochloride)

Catalog No: tcsc0549



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

163521-08-2

Formula:

$C_{26}H_{28}ClN_5O_2$

Pathway:

Neuronal Signaling; Neuronal Signaling; GPCR/G Protein

Target:

Serotonin Transporter; 5-HT Receptor; 5-HT Receptor

Purity / Grade:

>98%

Solubility:

DMSO : 25 mg/mL (52.30 mM; Need ultrasonic)

Alternative Names:

EMD 68843; SB659746A

Observed Molecular Weight:

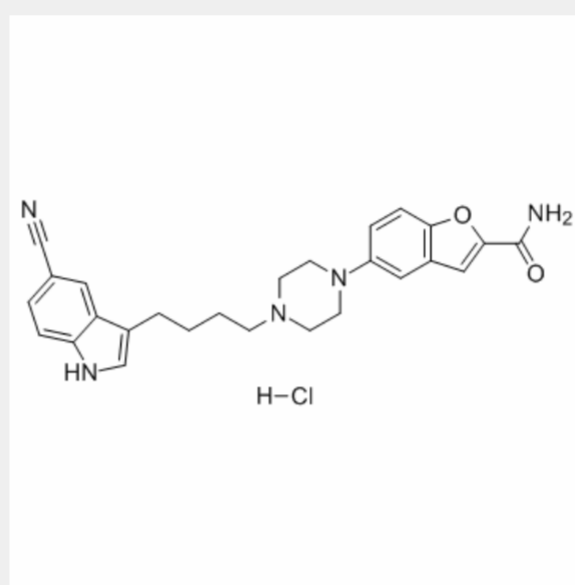
477.99

Product Description

Vilazodone Hydrochloride is a **serotonin** transporter (SER) inhibitor and **5-HT_{1A}** receptor partial agonist.

IC50 & Target: SER; 5-HT_{1A}^[1].

In Vivo: Administration of 5-HT_{1A} receptor agonists produce a characteristic behavioral syndrome that includes changes in posture, hind limb reduction, head weaving, tremors, forepaw treading, and straub tail. In the rat ultrasonic vocalizations test, stress-induced vocalizations are inhibited by Vilazodone (55 mg/kg po) at 120 and 210 min post dose. Vilazodone (20-40 mg/kg ip), administered acutely or prophylactically (1 week prior to behavioral testing), attenuated stress induces potentiated startle but has no effect on stress potentiated anxiety response in the elevated plus maze. Interestingly, a lower dose of 10 mg/kg of Vilazodone has the opposite effect in the startle response, indicating a somewhat unexplained bidirectional effect, and all doses produce a potentiation of the startle-induced stress response possibly suggestive of an anxiogenic-like response^[1]. Vilazodone also represents another option for the treatment of MDD^[2].



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