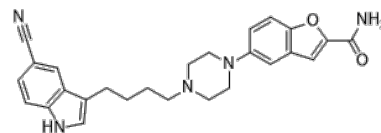


Product Name : Vilazodone
Cat. No. : PC-23306
CAS No. : 163521-12-8
Molecular Formula : C₂₆H₂₇N₅O₂
Molecular Weight : 441.54
Target : 5-HT Receptor
Solubility : 10 mM in DMSO



Biological Activity

Vilazodone (EMD68843, SB659746A) is a potent, dual 5-HT_{1A} agonist and serotonin reuptake inhibitor (SSRI) with IC₅₀ of 0.2 nM at the human 5-HT_{1A} receptor and 0.5 nM for the SERT.

Vilazodone (EMD 68843; SB 659746A) binds to the high agonist affinity state of human 5-HT_{1A} receptors, and displays high affinity (pK_i ≥ 9.3) for human recombinant and rat, guinea pig, mouse, and marmoset native tissue 5-HT_{1A} receptors.

Vilazodone (EMD 68843; SB 659746A) is a potent 5-HT reuptake inhibitor in rat and guinea pig cortex, inhibits [3H]5-HT uptake with a pIC₅₀ of 8.8 in LLCPK cells expressing human SERT.

Vilazodone (3 mg/kg ; i.p.; single dose) produces increases in extracellular levels of 5-HT in both the frontal cortex (FC) and ventral hippocampus (vHipp) of rats.

References

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Heinrich T, et al. J Med Chem. 2004 Sep 9;47(19):4684-92.

Heinrich T, et al. Bioorg Med Chem. 2004 Sep 15;12(18):4843-52.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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