
Product Data Sheet

Product Name: Vilazodone D8

Cat. No.: GC37906

Chemical Properties

Cas. No. 1794789-93-7

SMILES N#CC1=CC=C(NC=C2CCCCN3C([2H])([2H])C([2H])([2H])N(C4=CC=C(OC(C(N)=O)=C5)C5=C4)C([2H])([2H])C3([2H])[2H])C2=C1

Formula	C ₂₆ H ₁₉ D ₈ N ₅ O ₂	M.Wt	449.57
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Solubility	Water: 0.32 mg/ml	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Vilazodone-dg is intended for use as an internal standard for the quantification of vilazodone by GC- or LC-MS. Vilazodone is a selective serotonin reuptake inhibitor (SSRI) and a partial agonist of the serotonin (5-HT) receptor subtype 5-HT_{1A} (IC₅₀s = 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, respectively. 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.

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)

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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