

Product Data Sheet

Product Name: Almorexant-13C-d3

Cat. No.: GC46084

Chemical Properties

Cas. No. 2738376-75-3

SMILES O=C(N[13C]([2H])([2H])[2H])[C@@H](C1=CC=CC=C1)N2CCC3=C(C=C(OC)C(OC)=C3)[C@@H]2CCC4=CC=C(C(F)(F)F)C=C4

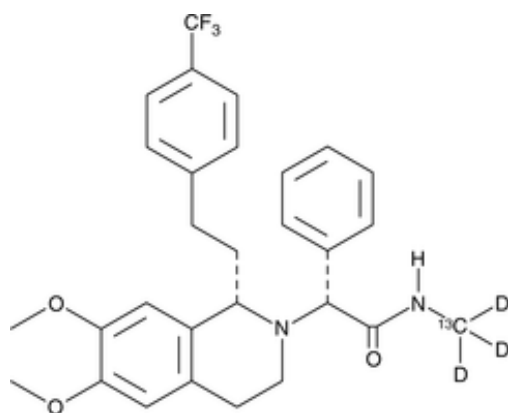
Formula C₂₈[¹³C]H₂₈D₃F₃N₂O₃ M.Wt 516.6

Solubility DMF: soluble, DMSO: soluble, Methanol: soluble Storage Store at -20°C

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

Almorexant-13C-d3 is intended for use as an internal standard for the quantification of almorexant by GC- or LC-MS. Almorexant is a dual antagonist of orexin 1 receptor (OX1R) and OX2R (K_i = 4.7 and 0.9 nM, respectively, in a radioligand binding assay).¹ It decreases the latency to persistent non-rapid eye movement (NREM) sleep and increases the duration of NREM and REM sleep in male rats when administered at a dose of 100 mg/kg.² Almorexant (300 mg/kg) does not impair spatial learning and memory in the Morris water maze and does not reverse spatial memory impairments induced by scopolamine in rats.³

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

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|1. Malherbe, P., Borroni, E., Pinard, E., et al. Biochemical and electrophysiological characterization of almorexant, a dual orexin 1 receptor (OX1)/orexin 2 receptor (OX2) antagonist: Comparison with selective OX1 and OX2 antagonists. *Molecular Pharmacology* 76(3), 618-631 (2015).|2. Brisbare-Roch, C., Dingemans, J., Koberstein, R., et al. Promotion of sleep by targeting the orexin system in rats, dogs and humans. *Nat. Med.* 13(2), 150-155 (2007).|3. Dietrich, H., and Jenck, F. Intact learning and memory in rats following treatment with the dual orexin receptor antagonist almorexant. *Psychopharmacology (Berl.)* 212(2), 145-154 (2010).

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