

Product Data Sheet

Product Name: Mozavaptan-d6

Cat. No.: GC47705

Chemical Properties

Cas. No. 2750534-83-7

SMILES CC1=CC=CC=C1C(NC2=CC=C(C(N3C(C=CC=C4)=C4C(N(C([2H])([2H])[2H])C([2H])([2H])[2H])CCC3)=O)C=C2)=O

Formula C₂₇H₂₃D₆N₃O₂

M.Wt 433.6

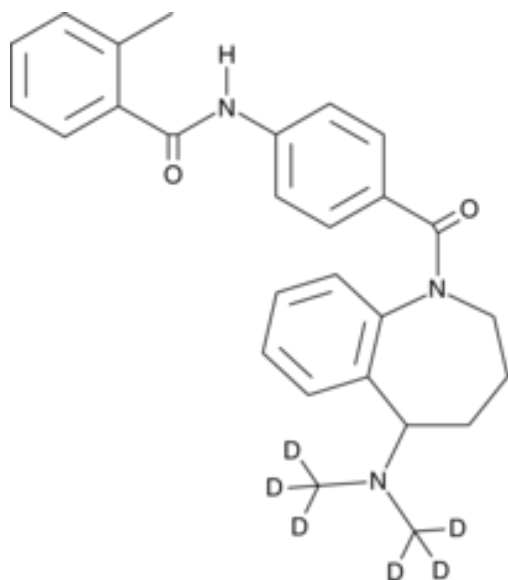
Solubility Acetonitrile:Methanol (1:1):
Soluble,DMF: Soluble,DMSO:
Soluble

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

Mozavaptan-d₆ is intended for use as an internal standard for the quantification of mozavaptan by GC- or LC-MS. Mozavaptan is an orally bioavailable antagonist of vasopressin V₂ receptors (K_i =

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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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9.42 nM in HeLa cells expressing the human receptor).^{1,2} It is selective for vasopressin V₂ over V₁ receptors (IC₅₀s = 14 and 1,200 nM, respectively) in radioligand binding assays using rat kidney and rat liver membranes that endogenously express high levels of vasopressin V₂ and V₁ receptors, respectively.¹ Mozavaptan (10-30 mg/kg, p.o.) increases urine volume and decreases urine osmolality, indicating aquaresis, in conscious rats. It reduces decreases in urine flow and increases in urine osmolality induced by arginine vasopressin in anesthetized rats when administered intravenously at doses ranging from 10 to 100 µg/kg.

1.Yamamura, Y., Ogawa, H., Yamashita, H., et al.Characterization of a novel aquaretic agent, OPC-31260, as an orally effective, nonpeptide vasopressin V2 receptor antagonistBr. J. Pharmacol.105(4)787-791(1992) 2.Nakamura, S., Itoh, S., Fujiki, H., et al.Binding affinities of mozavaptan hydrochloride (OPC-31260) for vasopressin receptorsJap. Pharmacol. Ther.34(7)827-834(2006)

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