

Product Data Sheet

Product Name: Candesartan-d4

Cat. No.: GC40238

Chemical Properties

Cas. No. 1346604-70-3

SMILES OC(C1=CC=CC2=C1N(CC3=C([2H])C([2H])=C(C4=CC=CC=C4C5=NN=NN5)C([2H])=C3[2H])C(OCC)=N2)=O

Formula C₂₄H₁₆D₄N₆O₃

M.Wt 444.5

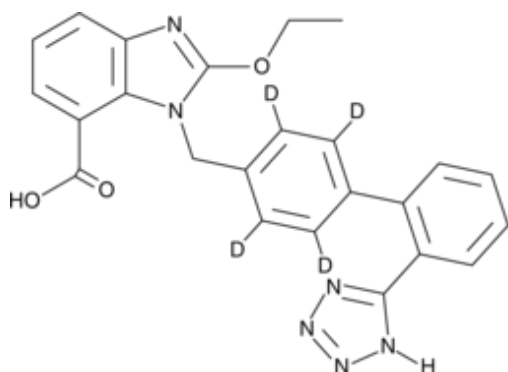
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 3 mg/ml

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

Candesartan-d4 is intended for use as an internal standard for the quantification of candesartan by GC- or LC-MS. Candesartan is an inhibitor of the angiotensin II type 1 (AT1) receptor (K_i = 0.17, 0.12, and 0.12 nM for human AT1, rat AT1A, and rat AT1B recombinant receptors, respectively). It is selective for AT1 over AT2 receptors (K_i = 26,500 nM for the human recombinant AT2 receptor). It inhibits angiotensin II-induced contraction of isolated rabbit aortic strips and increases in blood pressure in rats following intravenous administration (ID₅₀ = 0.033 mg/kg). Candesartan is a metabolite of the orally bioavailable prodrug candesartan cilexetil. Formulations containing candesartan have been used in the treatment of hypertension and heart failure.

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

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