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- Trockeneiszuschlag
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- Expressversand

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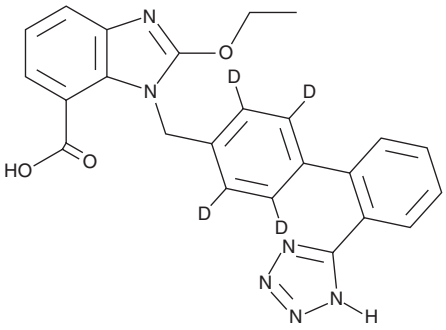
PRODUCT INFORMATION

Candesartan-d_4

Item No. 25419

CAS Registry No.: 1346604-70-3
Formal Name: 2-ethoxy-1-[[2'-(2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl-2,3,5,6-d_4]methyl]-1H-benzimidazole-7-carboxylic acid
Synonym: Candesartan M1-d_4
MF: $C_{24}H_{16}D_4N_6O_3$
FW: 444.5
Chemical Purity: ≥98% (Candesartan)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_4); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Candesartan-d_4 is intended for use as an internal standard for the quantification of candesartan by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Candesartan-d_4 is supplied as a solid. A stock solution may be made by dissolving the candesartan-d_4 in the solvent of choice, which should be purged with an inert gas. Candesartan-d_4 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of candesartan-d_4 in ethanol is approximately 3 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

Candesartan is an antagonist of the angiotensin II type 1 (AT_1) receptor (K_is = 0.17, 0.12, and 0.12 nM for human AT_1, rat AT_{1A}, and rat AT_{1B} recombinant receptors, respectively) and an active metabolite of the prodrug candesartan cilexitil (Item No. 10489).[1] It is selective for AT_1 over AT_2 receptors (K_i = 26,500 nM for the human recombinant AT_2 receptor). It inhibits angiotensin II-induced contraction of isolated rabbit aortic strips and increases in blood pressure in rats following intravenous administration (ID_{50} = 0.033 mg/kg).[2] Formulations containing candesartan have been used in the treatment of hypertension and heart failure.

References

1. Inada, Y., Nakane, T., and Chiba, S. Binding of KRH-594, an antagonist of the angiotensin II type 1 receptor, to cloned human and rat angiotensin II receptors. *Fundam. Clin. Pharmacol.* **16(4)**, 317-323 (2002).
2. Shibouta, Y., Inada, Y., Ojima, M., *et al.* Pharmacological profile of a highly potent and long-acting angiotensin II receptor antagonist, 2-ethoxy-1-[[2'-(1H-tetrazol-5-yl)biphenyl-4-yl]methyl]-1H-benzimidazole-7-carboxylic acid (CV-11974), and its prodrug, (+/-)-1-(cyclohexyloxycarbonyloxy)-ethyl 2-ethoxy-1-[[2'-(1H-tetrazol-5-yl)biphenyl-4-yl]methyl]-1H-benzimidazole-7-carboxylate (TCV-116). *J. Pharmacol. Exp. Ther.* **266(1)**, 114-120 (1993).

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