

Product Data Sheet

Product Name: Irbesartan-d4

Cat. No.: GC40208

Chemical Properties

Cas. No. 1216883-23-6

SMILES CCCCC1=NC2(CCCC2)C(N1CC3=C([2H])C([2H])=C(C4=C(C5=NNN=N5)C=CC=C4)C([2H])=C3[2H])=O

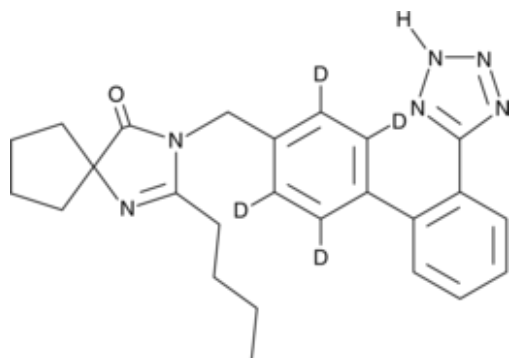
Formula C₂₅H₂₄D₄N₆O M.Wt 432.6

Solubility DMSO : 100 mg/mL (231.19 mM; Need ultrasonic and warming); DMF :
≥ 20 mg/mL (46.24 mM); DMSO : ≥
14 mg/mL (32.37 mM); Ethanol : ≥
0.5 mg/mL (1.16 mM)

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

Irbesartan-d4 is intended for use as an internal standard for the quantification of irbesartan by GC- or LC-MS. Irbesartan is an antagonist of the angiotensin II type 1 (AT1) receptor (K_i = 1.3 nM). It is an insurmountable antagonist of AT1, as its antagonism cannot be overcome by increasing concentrations of angiotensin II. Irbesartan (3, 10, and 30 mg/kg) reduces blood pressure in stroke-prone spontaneously hypertensive rats and increases survival of SPSH rats fed a high-salt low-

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

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protein diet. It also reduces plaque formation, collagen content, as well as the increased expression of the AT1 receptor, PDGF-b, MCP-1, and VCAM-1 in a model of diabetes-induced atherosclerosis using apolipoprotein E (ApoE) knockout mice with diabetes induced by streptozotocin . Formulations containing irbesartan have been used, alone and in combination with diuretics, in the treatment of hypertension.

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