

Product Data Sheet

Product Name: Ramipril-d5

Cat. No.: GC40234

Chemical Properties

Cas. No. 1132661-86-9

SMILES O=C([C@H](C)N[C@H](C(OCC)=O)CCC1=C([2H])C([2H])=C([2H])C([2H])=C1[2H])N2[C@]3([H])[C@](CCC3)([H])C[C@H]2C(O)=O

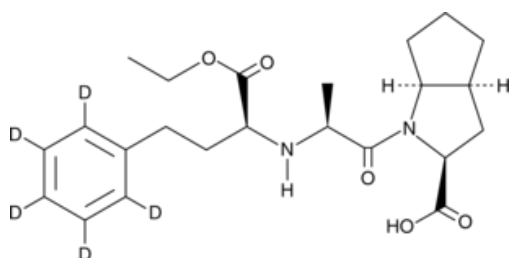
Formula C₂₃H₂₇D₅N₂O₅ M.Wt 421.5

Solubility Chloroform: Slightly Soluble, Methanol: Slightly 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

Ramipril-d5 is intended for use as an internal standard for the quantification of ramipril by GC- or LC-MS. Ramipril is a prodrug form of the angiotensin converting enzyme (ACE) inhibitor ramiprilat. Ramipril (2.5 mg/kg per day, p.o.) reduces systolic blood pressure in spontaneously hypertensive rats. It reduces aortic valve backscatter and improves aortic flow in a rabbit model of aortic valve stenosis. Ramipril also decreases paw swelling and serum levels of TNF- α and prostaglandin E₂ (PGE₂) as well as cardiac collagen deposition and fibrosis in a rat model of adjuvant-induced arthritis.

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

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