

Product Data Sheet

Product Name: Quinapril-d5

Cat. No.: GC48513

Chemical Properties

Cas. No. 1279029-79-6

SMILES O=C(O)[C@H]1N(C([C@H](C)N[C@@H](CCC2=C([2H])C([2H])=C([2H])C([2H])=C2[2H])C(OCC)=O)=O)CC3=C(C=CC=C3)C1

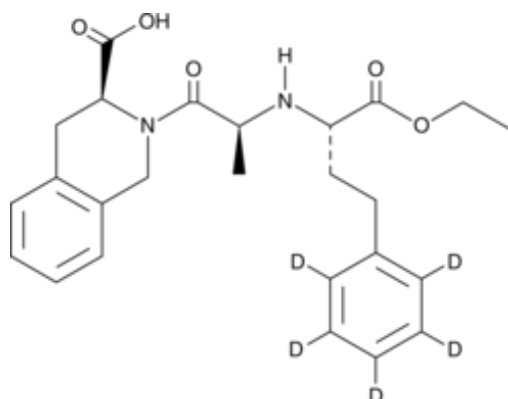
Formula C₂₅H₂₅D₅N₂O₅ M.Wt 443.6

Solubility Methanol: soluble Storage -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Quinapril-d₅ is intended for use as an internal standard for the quantification of quinapril by GC- or LC-MS. Quinapril is a prodrug form of the angiotensin converting enzyme (ACE) inhibitor quinaprilat.^{1,2} *In vivo*, quinapril (3 mg/kg) reduces mean arterial pressure in renal hypertensive and spontaneously hypertensive rats.² It inhibits angiotensin I-induced pressor responses in normotensive rats and dogs. Quinapril (10-200 mg/kg) prevents left ventricular heart failure in CHF 14.6 cardiomyopathic hamsters. Formulations containing quinapril have been used in the treatment of hypertension, heart failure, and diabetic nephropathy.

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

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1.Vago, T., Bevilacqua, M., Conci, F., et al.Angiotensin converting enzyme binding sites in human heart and lung: Comparison with rat tissuesBr. J. Pharmacol.107(3)821-825(1992) 2.Kaplan, H.R., Taylor, D.G., and Olson, S.C.Quinapril: Overview of preclinical dataClin. Cardiol.13(6 Suppl. 7)VII6-VII12(1990)

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