

Product Data Sheet

Product Name: Lisinopril-d5

Cat. No.: GC45501

Chemical Properties

Cas. No. 1356905-39-9

SMILES O=C(N1[C@H](C(O)=O)CCC1)[C@H](CCCCN)N[C@H](C(O)=O)CCC2=C([2H])C([2H])=C([2H])C([2H])=C2[2H]

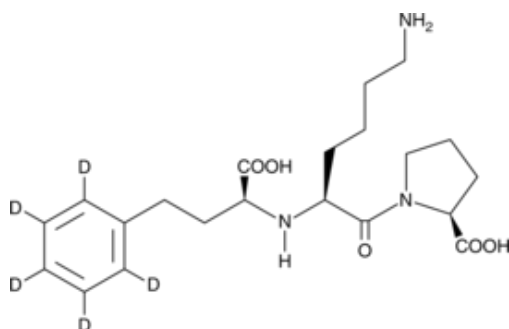
Formula C₂₁H₂₆D₅N₃O₅ M.Wt 410.5

Solubility H₂O : 50 mg/mL (121.80 mM; Need ultrasonic and warming) 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

Lisinopril-d5 is intended for use as an internal standard for the quantification of lisinopril by GC- or LC-MS. Lisinopril is an angiotensin-converting enzyme (ACE) inhibitor (IC₅₀ = 1.2 nM).¹ It reduces the formation of endothelin-1 and increases nitric oxide in human vascular endothelial cells.²

Lisinopril inhibits the pressor response to angiotensin I in anesthetized rats and dogs (ID₅₀s = 2.3 and 6.5 µg/kg in rat and dog, respectively).¹

References

1. Patchett, A.A., Harris, E., Tristram, E.W., et al. A new class of angiotensin-converting enzyme inhibitors. Nature 288(5788), 280-283 (1980).

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

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2. Desideri, G., Grassi, D., Croce, G., et al. Different effects of angiotensin converting enzyme inhibitors on endothelin-1 and nitric oxide balance in human vascular endothelial cells: Evidence of an oxidant-sensitive pathway. *Mediators Inflamm.* 305087, (2008).

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