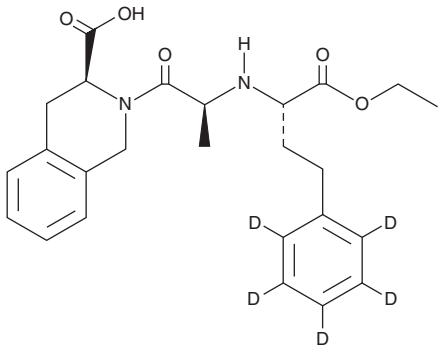
PRODUCT INFORMATION

Quinapril-d_5

Item No. 30735

CAS Registry No.:	1279029-79-6
Formal Name:	2-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)-3-phenyl-d_5-propyl]amino]-1-oxopropyl]-1,2,3,4-tetrahydro-3-isoquinolinecarboxylic acid
Synonym:	CI-906-d_5
MF:	$C_{25}H_{25}D_5N_2O_5$
FW:	443.6
Chemical Purity:	≥98% (Quinapril)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_5); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

Quinapril-d_5 is intended for use as an internal standard for the quantification of quinapril (Item No. 21439) 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).

Quinapril-d_5 is supplied as a solid. A stock solution may be made by dissolving the quinapril-d_5 in the solvent of choice, which should be purged with an inert gas. Quinapril-d_5 is soluble in the organic solvent methanol.

Description

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.

References

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

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