SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

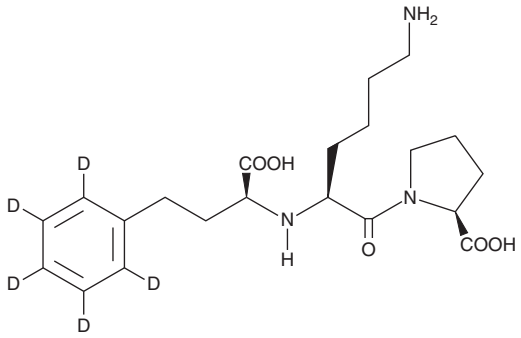
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Lisinopril-d_5

Item No. 28520



CAS Registry No.:	1356905-39-9
Formal Name:	((S)-1-carboxy-3-(phenyl-d_5)propyl)-L-lysyl-L-proline
MF:	$C_{21}H_{26}D_5N_3O_5$
FW:	410.5
Chemical Purity:	≥95% (Lisinopril)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_5); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years

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

Laboratory Procedures

Lisinopril-d_5 is intended for use as an internal standard for the quantification of lisinopril (Item No. 16833) 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).

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

Description

Lisinopril is an angiotensin-converting enzyme (ACE) inhibitor (IC_{50} = 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 (ID_{50}s = 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).
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).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM