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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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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

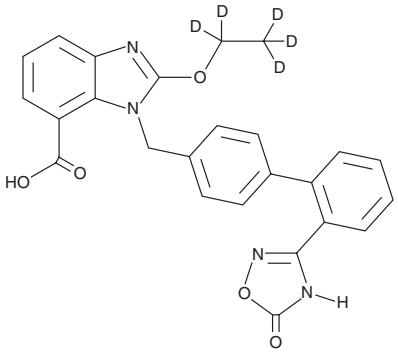
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Azilsartan-d_5

Item No. 33276

CAS Registry No.:	1346599-45-8
Formal Name:	2-(ethoxy-d_5)-1-((2'-(5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)-[1,1'-biphenyl]-4-yl)methyl)-1H-benzo[d]imidazole-7-carboxylic acid
MF:	$C_{25}H_{15}D_5N_4O_5$
FW:	461.5
Chemical Purity:	≥98% (Azilsartan)
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

Azilsartan-d_5 is intended for use as an internal standard for the quantification of azilsartan (Item No. 26091) 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).

Azilsartan-d_5 is supplied as a solid. A stock solution may be made by dissolving the azilsartan-d_5 in the solvent of choice, which should be purged with an inert gas. Azilsartan-d_5 is slightly soluble in methanol and DMSO.

Description

Azilsartan is an antagonist of the angiotensin II type 1 receptor (AT_1; IC_{50} = 0.42 µM) and the active metabolite of azilsartan medoxomil (Item No. 23805).[1,2] Azilsartan is formed from azilsartan medoxomil by hydrolysis in the gastrointestinal tract and liver.[3] Azilsartan also acts as an inverse agonist, inhibiting angiotensin II-induced accumulation of inositol-1-phosphate in COS-7 cells expressing recombinant human AT_1 (IC_{50} = 2.6 nM).[2] It reduces the maximal contractile response induced by angiotensin II in isolated rabbit aortic strips (pD_2 = 9.9).[2] Azilsartan (100 ng/kg, i.v.) inhibits the angiotensin II-induced pressor response in conscious normotensive rats.[2]

References

1. Kohara, Y., Kubo, K., Imamiya, E., *et al*. Synthesis and angiotensin II receptor antagonistic activities of benzimidazole derivatives bearing acidic heterocycles as novel tetrazole bioisosteres. *J. Med. Chem.* **39(26)**, 5228-5235 (1996).
2. Ojima, M., Igata, H., Tanaka, M., *et al*. In vitro antagonistic properties of a new angiotensin type 1 receptor blocker, azilsartan, in receptor binding and function studies. *J. Pharmacol. Exp. Ther.* **336(3)**, 801-808 (2011).
3. Clas, S.-D., Sanchez, R.I., and Nofsinger, R. Chemistry-enabled drug delivery (prodrugs): Recent progress and challenges. *Drug Discov. Today* **19(1)**, 79-87 (2014).

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