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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

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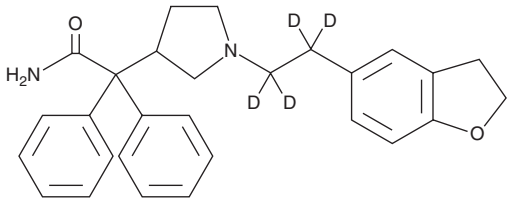
PRODUCT INFORMATION

Darifenacin-d_4

Item No. 33701

CAS Registry No.:	1189701-43-6
Formal Name:	1-[2-(2,3-dihydro-5-benzofuranyl) ethyl-1,1,2,2-d_4]-α,α-diphenyl-3-pyrrolidineacetamide
MF:	$C_{28}H_{26}D_4N_2O_2$
FW:	430.6
Chemical Purity:	≥95% (Darifenacin) (mixture of isomers)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤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

Darifenacin-d_4 is intended for use as an internal standard for the quantification of darifenacin (Item No. 14424) 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).

Darifenacin-d_4 is supplied as a solid. A stock solution may be made by dissolving the darifenacin-d_4 in the solvent of choice, which should be purged with an inert gas. Darifenacin-d_4 is soluble in DMSO and acetonitrile.

Description

Darifenacin is an antagonist of M_3 muscarinic acetylcholine receptors (mAChRs; K_i = 0.76 nM).[1] It is selective for M_3 over M_1, M_2, M_4, and M_5 mAChRs (K_is = 7.08, 44.67, 45.71, and 9.33 nM, respectively). Darifenacin selectively inhibits contractions in isolated guinea pig ileum, bladder, and trachea (pA_2s = 9.44, 8.66, and 8.7, respectively), tissues that endogenously express high levels of M_3 mAChRs, over isolated rabbit vas deferens and isolated guinea pig atria (pA_2s = 7.9 and 7.48, respectively), which endogenously express M_1 and M_2 mAChRs, respectively. It inhibits micturition pressure (ED_{50} = 0.089 mg/kg, i.v.), as well as micturition interval and volume in rats. Formulations containing darifenacin have been used in the treatment of overactive bladder.

Reference

1. Wallis, R.M. and Napier, C.M. Muscarinic antagonists in development for disorders of smooth muscle function. *Life Sci.* **64(6-7)**, 395-401 (1999).

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