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Produktinformation

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- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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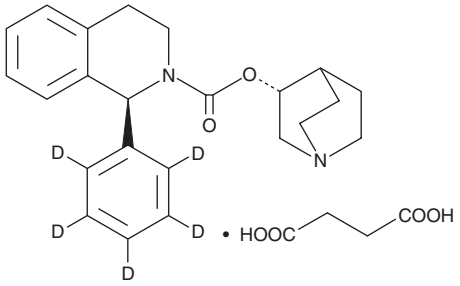
PRODUCT INFORMATION

Solifenacin-d_5 (succinate)

Item No. 34245

Formal Name: (1S)-(3R)-1-azabicyclo[2.2.2]oct-3-yl 3,4-dihydro-1-(phenyl-d_5)-2(1H)-isoquinolinecarboxylate, butanedioic acid
MF: $C_{23}H_{21}D_5N_2O_2 \bullet C_4H_6O_4$
FW: 485.6
Chemical Purity: ≥95% (Solifenacin (succinate))
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

Solifenacin-d_5 (succinate) is intended for use as an internal standard for the quantification of solifenacin (Item No. 17320) 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).

Solifenacin-d_5 (succinate) is supplied as a solid. A stock solution may be made by dissolving the solifenacin-d_5 (succinate) in the solvent of choice, which should be purged with an inert gas. Solifenacin-d_5 (succinate) is soluble in organic solvents such as methanol and DMSO.

Description

Solifenacin is a competitive antagonist of M_1, M_2, and M_3 muscarinic acetylcholine receptors (K_is = 25, 125, and 10 nM, respectively, for the human receptors).[1] It inhibits calcium mobilization induced by carbamoylcholine (carbachol; Item No. 14486) in isolated guinea pig detrusor muscle cells (K_i = 4 nM).[2] Solifenacin inhibits carbachol-induced contraction of isolated guinea pig urinary bladder smooth muscle. *In vivo*, solifenacin (0.03-1 mg/kg) inhibits carbachol-induced increases in urinary bladder pressure in anesthetized rats. Formulations containing solifenacin have been used in the treatment of overactive bladder.

References

1. Hegde, S.S. Muscarinic receptors in the bladder: From basic research to therapeutics. *Br. J. Pharmacol.* **147(2)**, S80-S87 (2006).
2. Ikeda, K., Koboyashi, S., Suzuki, M., *et al.* M_3 receptor antagonism by the novel antimuscarinic agent solifenacin in the urinary bladder and salivary gland. *Naunyn Schmiedebergs Arch. Pharmacol.* **366(2)**, 97-103 (2002).

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