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PRODUCT INFORMATION



Oxybutynin-d₁₀ (hydrochloride)

Item No. 10010655

CAS Registry No.: 120092-65-1

Formal Name: benzeneacetic acid, α -cyclohexyl- α -hydroxy-4-[di(ethyl-d₅)amino]-2-butynyl ester, monohydrochloride

MF: C₂₂H₂₁D₁₀NO₃ • HCl

FW: 404.0

Chemical Purity: ≥98% (Oxybutynin)

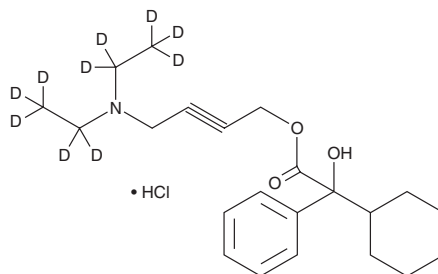
Deuterium

Incorporation: ≥99% deuterated forms (d₁-d₁₀); ≤1% d₀

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

Oxybutynin-d₁₀ is intended for use as an internal standard for the quantification of oxybutynin (Item No. 23825) 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).

Oxybutynin-d₁₀ (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the oxybutynin-d₁₀ (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Oxybutynin-d₁₀ (hydrochloride) is slightly soluble in chloroform, methanol, and DMSO.

Description

Oxybutynin is an antagonist of muscarinic acetylcholine receptors (K_i s = 5, 14.5, 3.7, 5.3, and 40 nM for human recombinant M₁₋₅, respectively).¹ It inhibits intracellular calcium mobilization induced by carbamoylcholine (carbachol; Item No. 14486) in bladder smooth muscle and submandibular gland cells isolated from cynomolgus monkeys (K_i s = 2 and 1 nM, respectively).² Oxybutynin inhibits volume-induced bladder contraction (VIBC) and oxotremorine-induced salivation (OIS) in rats (ID₅₀s = 0.062 and 0.089 mg/kg, respectively).¹ It also increases pupil diameter (PD) and locomotor activity (LMA; ED₅₀s = 0.29 and 0.52 mg/kg, respectively) and decreases small intestinal transit (SIT; ID₅₀ = 0.22 mg/kg) in rats. Formulations containing oxybutynin have been used in the treatment of overactive bladder.

References

1. McNamara, A., Pulido-Rios, M.T., Sweazey, S., *et al.* Pharmacological properties of TD-6301, a novel bladder selective muscarinic receptor antagonist. *Eur. J. Pharmacol.* **605**(1-3), 145-152 (2009).
2. Kobayashi, S., Ikeda, K., and Miyata, K. Comparison of *in vitro* selectivity profiles of solifenacin succinate (YM905) and current antimuscarinic drugs in bladder and salivary glands: A Ca²⁺ mobilization study in monkey cells. *Life Sci.* **74**(7), 843-853 (2004).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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