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- Trockeneiszuschlag
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- Expressversand

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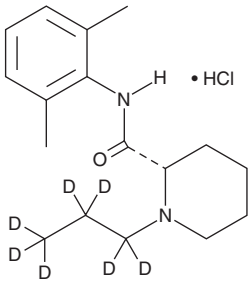
PRODUCT INFORMATION

(–)-Ropivacaine-d_7 (hydrochloride)

Item No. 26495

CAS Registry No.: 1217667-10-1
Formal Name: (S)-N-(2,6-dimethylphenyl)-1-(propyl-d_7)piperidine-2-carboxamide, monohydrochloride
Synonym: (S)-Ropivacaine-d_7
MF: $C_{17}H_{19}D_7N_2O \bullet HCl$
FW: 317.9
Chemical Purity: ≥98% ((–)-Ropivacaine)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_7); ≤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

(–)-Ropivacaine-d_7 (hydrochloride) is intended for use as an internal standard for the quantification of (–)-ropivacaine (Item No. 21422) 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).

(–)-Ropivacaine-d_7 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the (–)-ropivacaine-d_7 (hydrochloride) in the solvent of choice. (–)-Ropivacaine-d_7 (hydrochloride) is soluble in the organic solvent methanol, which should be purged with an inert gas.

Description

(–)-Ropivacaine is a potent and reversible blocker of sodium channels in nerve fibers.[1] *In vivo*, (–)-ropivacaine induces complete impairment of proprioception, motor function, and nociception in the hindleg of rats when 100 µL of an 8 mM solution is injected percutaneously into the sciatic nerve.[2] (–)-Ropivacaine depresses myocardial contractile force in isolated rat hearts less potently than (±)-ropivacaine, as well as (–)- and (±)-bupivacaine (Item No. 16618).[3] Formulations containing (–)-ropivacaine have been used as local anesthetics during surgery and childbirth.

References

1. Hansen, T.G. Ropivacaine: A pharmacological review. *Exp. Rev. Neurother.* **4(5)**, 781-791 (2004).
2. Sinnott, C.J. and Strichartz, G.R. Levobupivacaine versus ropivacaine for sciatic nerve block in the rat. *Reg. Anesth. Pain Med.* **28(4)**, 294-303 (2003).
3. Pinotti, M.F., Hepner, A., Campos, D.H., *et al.* Myocardial contractility impairment with racemic bupivacaine, non-racemic bupivacaine and ropivacaine. A comparative study. *Acta Cir. Bras.* **30(7)**, 484-490 (2015).

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