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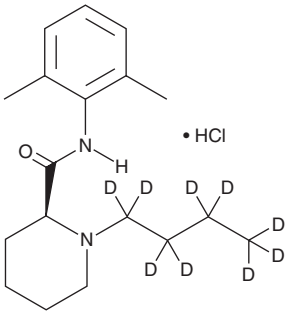
PRODUCT INFORMATION

Levobupivacaine-d_9 (hydrochloride)

Item No. 38904



Formal Name:	1-butyl-d_9-N-(2,6-dimethylphenyl)-(2S)-2-piperidinecarboxamide, monohydrochloride
Synonym:	(S)-(–)-Bupivacaine-d_9
MF:	$C_{18}H_{19}D_9N_2O \bullet HCl$
FW:	333.9
Chemical Purity:	≥98% (Levobupivacaine)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_9); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥3 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Levobupivacaine-d_9 is intended for use as an internal standard for the quantification of levobupivacaine (Item No. 31596) 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).

Levobupivacaine-d_9 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the levobupivacaine-d_9 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Levobupivacaine-d_9 (hydrochloride) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of levobupivacaine-d_9 (hydrochloride) in these solvents is approximately 1 mg/ml.

Description

Levobupivacaine is a sodium channel blocker and local anesthetic, as well as the levorotary stereoisomer of bupivacaine (Item No. 16618).[1-3] It inhibits cardiac sodium channel currents (I_{Na}) by 57.8% in isolated guinea pig ventricular myocytes when used at a concentration of 10 µM.[1] Levobupivacaine (10 µM) reduces the maximal rate of depolarization (V_{max}) and action potential duration to 76.7 and 83.4% of controls, respectively, in isolated guinea pig papillary muscle.[2] It induces a complete block of proprioception, motor function, and nociception in the hindleg of rats when administered at a dose of 7.7 mM by percutaneous injection into the sciatic nerve.[3]

References

1. Valenzuela, C., Snyders, D.J., Bennett, P.B., *et al.* Stereoselective block of cardiac sodium channels by bupivacaine in guinea pig ventricular myocytes. *Circulation* **92(10)**, 3014-3024 (1995).
2. Vanhoutte, F., Vereecke, J., Verbeke, N., *et al.* Stereoselective effects of the enantiomers of bupivacaine on the electrophysiological properties of the guinea-pig papillary muscle. *Br. J. Pharmacol.* **103(1)**, 1275-1281 (1991).
3. 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).

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