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Zuschläge

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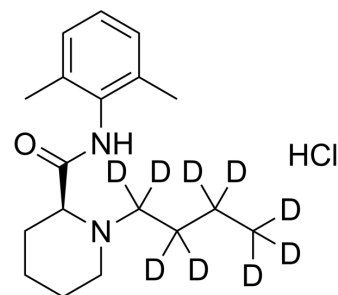
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Levobupivacaine-d₉ hydrochloride

Cat. No.:	HY-B0653AS
Molecular Formula:	C ₁₈ H ₂₀ D ₉ ClN ₂ O
Molecular Weight:	333.94
Target:	Isotope-Labeled Compounds; Ferroptosis; Sodium Channel
Pathway:	Others; Apoptosis; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Levobupivacaine-d₉ ((S)-(-)-Bupivacaine-d₉) hydrochloride is deuterium labeled Levobupivacaine (hydrochloride). Levobupivacaine hydrochloride ((S)-(-)-Bupivacaine monohydrochloride) is a long-acting amide local agent that can suppress or relieve pain. Levobupivacaine hydrochloride exerts agent that can suppress or relieve pain. and analgesic effects through reversible blockade of neuronal sodium channel. Levobupivacaine hydrochloride can inhibit impulse transmission and conduction in cardiovascular and other tissues, possessing certain cardiac and CNS toxicity. Levobupivacaine hydrochloride is metabolized by hepatic cytochrome P450 (CYP450) enzymes in vivo. Levobupivacaine hydrochloride can also induce ferroptosis by miR-489-3p/SLC7A11 signaling in gastric cancer^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Sanford M, et al. Levobupivacaine: a review of its use in regional anaesthesia and pain management. *Drugs*. 2010 Apr 16;70(6):761-91.
- [3]. Mao SH, et al. Levobupivacaine Induces Ferroptosis by miR-489-3p/SLC7A11 Signaling in Gastric Cancer. *Front Pharmacol*. 2021 Jun 9;12:681338.
- [4]. Marganella C, et al. Comparative effects of levobupivacaine and racemic bupivacaine on excitotoxic neuronal death in culture and N-methyl-D-aspartate-induced seizures in mice. *Eur J Pharmacol*. 2005 Aug 22;518(2-3):111-5.

Caution: Product has not been fully validated for medical applications. For research use only.

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