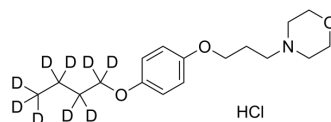


Pramocaine-d₉ hydrochloride

Cat. No.:	HY-B1319S1
Molecular Formula:	C ₁₇ H ₁₉ D ₉ ClNO ₃
Molecular Weight:	338.92
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pramocaine-d ₉ (hydrochloride) is deuterium labeled Pramocaine (hydrochloride). Pramocaine hydrochloride decreases the permeability of neuronal membranes to sodium ions, blocking both initiation and conduction of nerve impulses.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. SCHMIDT JL, et al. The pharmacology of pramoxine hydrochloride: a new topical local anesthetic. *Curr Res Anesth Analg*. 1953 Nov-Dec;32(6:1):418-25.

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

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