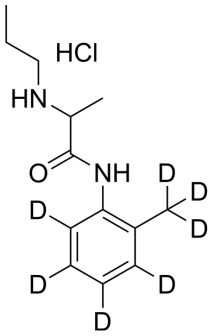
Prilocaine-d_7 hydrochloride

Cat. No.:	HY-B0137AS
Molecular Formula:	$C_{13}H_{14}D_7ClN_2O$
Molecular Weight:	263.81
Target:	Na+/K+ ATPase; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Prilocaine-d_7 (hydrochloride) is deuterium labeled Prilocaine (hydrochloride). Prilocaine hydrochloride, an amino amide, is a Na, K-ATPase inhibitor. Prilocaine has neurotoxic effects[1][2].
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]. H Kutchai, et al. Effects of local anaesthetics on the activity of the Na,K-ATPase of canine renal medulla. Pharmacol Res. 2000 Jan;41(1):1-7.

[3]. M Mete, et al. Neurotoxic effects of local anesthetics on the mouse neuroblastoma NB2a cell line. Biotech Histochem. 2015 Apr;90(3):216-22.

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