Prilocaine hydrochloride

Cat. No.: HY-B0137A

CAS No.: 1786-81-8

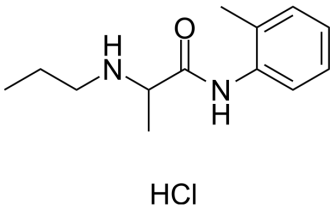
Molecular Formula: $C_{13}H_{21}ClN_2O$

Molecular Weight: 256.77

Target: Na+/K+ ATPase

Pathway: Membrane Transporter/Ion Channel

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Prilocaine hydrochloride, an amino amide, is a Na, K-ATPase inhibitor. Prilocaine has neurotoxic effects[1][2].
IC_{50} & Target	Na, K-ATPase[2]
In Vitro	Prilocaine hydrochloride is more potent in inhibiting the Na,K-ATPase of plasma membranes of LM cells (transformed fibroblasts) at 37 ☒ (43.8 mM) than at 25 ☒ (28.2 mM)[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Stem Cell Res Ther. 2021 Feb 4;12(1):107.

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REFERENCES

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

[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.

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

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