Prilocaine acetate

Cat. No.: HY-B0137B

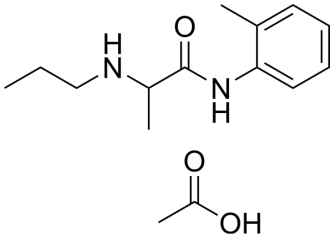
Molecular Formula: $C_{15}H_{24}N_2O_3$

Molecular Weight: 280.36

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 acetate, an amino amide, is a Na/K-ATPase inhibitor. Prilocaine acetate has neurotoxic effects[1][2].
IC_{50} & Target	Na/K-ATPase[2]
In Vitro	Prilocaine acetate 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.

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