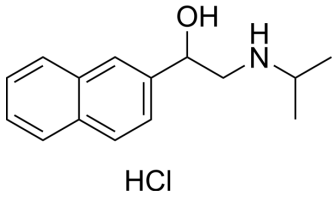
Pronethalol hydrochloride

Cat. No.:	HY-B1238A
CAS No.:	51-02-5
Molecular Formula:	$C_{15}H_{20}ClNO$
Molecular Weight:	265.78
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pronethalol ((±)-Pronethalo) is a non-selective β-adrenergic antagonist. Pronethalol is a potent inhibitor of Sox2 expression. Pronethalol protects against and to reverse Digitalis-induced ventricular arrhythmias, and limits the cerebral arteriovenous malformation (AVMs)[1][2].
IC_{50} & Target	β adrenergic receptor
In Vitro	Pronethalol (2, 10, 20 μM) represses EGFP expression in a dose- and time-dependent manner in ReNcell VM cells. Pronethalol (10 μM; 2 days) reduces Sox2 expression to less than 10% after 2 days of treatment[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Pronethalol (0.15 mg/g; daily; for 14 days) stabilizes endothelial differentiation, lumen formation and improves cerebral arteriovenous malformation (AVMs) in $Mgp^{-/-}$ mice[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Biol Macromol. 2023 May 19;242(Pt 2):124870.

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REFERENCES

[1]. Jiayi Yao, et al. Elevated endothelial Sox2 causes lumen disruption and cerebral arteriovenous malformations. J Clin Invest. 2019 Jun 24;129(8):3121-3133.

[2]. Aroesty JM, et al. The effects of a beta-adrenergic blocking agent, pronethalol, on digitalis-induced ventricular arrhythmias. Am Heart J. 1966 Apr;71(4):503-508.

[3]. Aroesty JM, et al. The effects of a beta-adrenergic blocking agent, pronethalol, on digitalis-induced ventricular arrhythmias. Am Heart J. 1966 Apr;71(4):503-8.

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

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