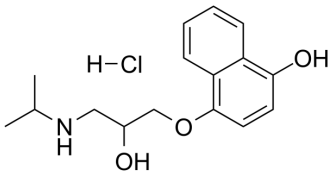
4-Hydroxypropranolol hydrochloride

Cat. No.:	HY-100634
CAS No.:	14133-90-5
Molecular Formula:	$C_{16}H_{22}ClNO_3$
Molecular Weight:	311.8
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	4-Hydroxypropranolol hydrochlorid is an active metabolite of Propranolol. 4-Hydroxypropranolol hydrochlorid is of comparable potency to Propranolol. 4-Hydroxypropranolol hydrochlorid inhibits β1- and β2-adrenergic receptors with pA_2 values of 8.24 and 8.26, respectively. 4-Hydroxypropranolol hydrochlorid has intrinsic sympathomimetic activity, membrane stabilizing activity and potent antioxidant properties[1][2][3].
IC_{50} & Target	pA2: 8.24 (β1-adrenergic receptor) and 8.26 (β2-adrenergic receptor)[2]

REFERENCES

[1]. Fitzgerald JD, et al. Pharmacology of 4-hydroxypropranolol, a metabolite of propranolol. Br J Pharmacol. 1971 Sep;43(1):222-35.

[2]. Nelson WL, et al. The 3,4-catechol derivative of propranolol, a minor dihydroxylated metabolite. J Med Chem. 1984 Jul;27(7):857-61.

[3]. Ivan Tong Mak, et al. Potent Antioxidant Properties of 4-Hydroxyl-propranolol. Journal of Pharmacology and Experimental Therapeutics. 2004, 308(1):85-90.

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