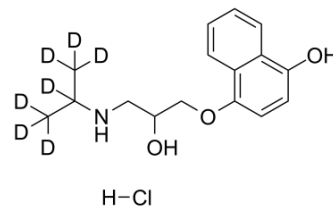


4-Hydroxypropranolol D7 hydrochloride

Cat. No.:	HY-100634S
CAS No.:	1219804-03-1
Molecular Formula:	C ₁₆ H ₁₅ D ₇ ClNO ₃
Molecular Weight:	318.85
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 D7 hydrochloride ((±)-4-hydroxy Propranolol D7 hydrochloride) is a deuterium labeled 4-Hydroxypropranolol hydrochloride. 4-Hydroxypropranolol hydrochlorid is an active metabolite of Propranolol, with potency comparable to Propranolol. 4-Hydroxypropranolol hydrochlorid inhibits β ₁ - and β ₂ -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]} .
IC₅₀ & Target	pA ₂ : 8.24 (β ₁ -adrenergic receptor) and 8.26 (β ₂ -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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA