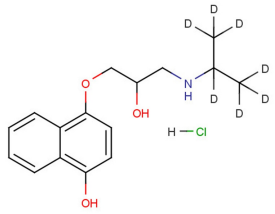
Data Sheet (Cat.No.T10149)

TargetMol
A DRUG SCREENING EXPERT

4-Hydroxypropranolol D7 hydrochloride

Chemical Properties



CAS No.:	1219804-03-1
Formula:	C16H15D7ClNO3
Molecular Weight:	318.85
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	4-Hydroxypropranolol D7 hydrochloride is deuterium-labeled 4-Hydroxypropranolol hydrochloride. 4-Hydroxypropranolol hydrochloride is an active metabolite of Propranolol, with a potency comparable to Propranolol. It inhibits β1- and β2-adrenergic receptors (pA2s: 8.24 and 8.26).
Targets(IC_{50})	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.136 mL	15.681 mL	31.363 mL
5 mM	0.627 mL	3.136 mL	6.273 mL
10 mM	0.314 mL	1.568 mL	3.136 mL
50 mM	0.063 mL	0.314 mL	0.627 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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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