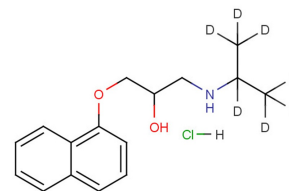


Propranolol D7 hydrochloride

Chemical Properties

CAS No.:	1613439-56-7
Formula:	C ₁₆ H ₁₅ D ₇ ClNO ₂
Molecular Weight:	302.85
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Propranolol D7 hydrochloride is a deuterium labeled Propranolol hydrochloride. Propranolol hydrochloride is a nonselective antagonist of β -adrenergic receptor (β AR).
Targets(IC ₅₀)	β AR: 12 nM

Solubility Information

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

	1mg	5mg	10mg
1 mM	3.302 mL	16.51 mL	33.02 mL
5 mM	0.66 mL	3.302 mL	6.604 mL
10 mM	0.33 mL	1.651 mL	3.302 mL
50 mM	0.066 mL	0.33 mL	0.66 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Galandrin S, et al. Distinct signaling profiles of beta1 and beta2 adrenergic receptor ligands toward adenylyl cyclase and mitogen-activated protein kinase reveals the pluridimensionality of efficacy. *Mol Pharmacol*. 2006 Nov;70(5):1575-84.
2. Briley M, et al. Evidence against beta-adrenoceptor blocking activity of diltiazem, a drug with calcium antagonist properties. *Br J Pharmacol*. 1980 Aug;69(4):669-73.
3. Al-Majed AA, et al. Propranolol. *Profiles Drug Subst Excip Relat Methodol*. 2017;42:287-338.

Inhibitors · Natural Compounds · Compound Libraries

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