

Propranolol-D7 hydrochloride

Chemical Properties

CAS No. : 1613439-56-7

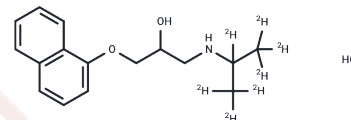
Formula: C₁₆H₂₂ClNO₂

Molecular Weight: 302.85

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Propranolol-D7 hydrochloride is a deuterated isotope marker of Propranolol hydrochloride (TMSM-1966), which can be used for isotope tracing. Propranolol is a non-selective beta-blocker used for hypertension research
Targets(IC50)	Adrenergic Receptor
In vitro	Propranolol-d7 hydrochloride's parent shows high affinity for beta1-AR (Ki=1.8 nM) and beta2-AR (Ki=0.8 nM) [1][3].

Solubility Information

Solubility	DMSO: 80 mg/mL (264.16 mM),Sonication is recommended. (< 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	16.5098 mL	33.0196 mL
5 mM	0.6604 mL	3.302 mL	6.6039 mL
10 mM	0.3302 mL	1.651 mL	3.302 mL
50 mM	0.066 mL	0.3302 mL	0.6604 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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.

Al-Majed AA, et al. Propranolol. Profiles Drug Subst Excip Relat Methodol. 2017;42:287-338.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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