

Dexpropranolol hydrochloride

Chemical Properties

CAS No.:	13071-11-9
Formula:	C ₁₆ H ₂₂ ClNO ₂
Molecular Weight:	295.81
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	(R)-(+)-PROPRANOLOL is a less active enantiomer of propranolol.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.381 mL	16.903 mL	33.805 mL
5 mM	0.676 mL	3.381 mL	6.761 mL
10 mM	0.338 mL	1.690 mL	3.381 mL
50 mM	0.068 mL	0.338 mL	0.676 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. Cocker PJ, Lin MY, Tremblay M, Kaur S, Winstanley CA. The β -adrenoceptor blocker propranolol ameliorates compulsive-like gambling behaviour in a rodent slot machine task: implications for iatrogenic gambling disorder. Eur J Neurosci. 2018 Jul 17. doi: 10.1111/ejn.14070. [Epub ahead of print] PubMed PMID: 30019362.
2. Bühner C, Erdevi Ö, Bassler D, Bar-Oz B. Oral propranolol for prevention of threshold retinopathy of prematurity (ROP-PROP): protocol of a randomised controlled trial. BMJ Open. 2018 Jul 6;8(7):e021749. doi: 10.1136/bmjopen-2018-021749. PubMed PMID: 29982217; PubMed Central PMCID: PMC6042594.
3. Zhu X, Guo X, Liu D, Gong Y, Sun J, Dong C. Promotion of Propranolol Delivery to Hemangiomas by Using Anti-VEGFR Antibody-Conjugated Poly(lactic-co-glycolic acid) Nanoparticles. J Biomed Nanotechnol. 2017 Dec 1;13(12):1694-1705. doi: 10.1166/jbnn.2017.2449. PubMed PMID: 29490757.
4. Propranolol Hydrochloride (Hemangioli) [Internet]. Ottawa (ON): Canadian Agency for Drugs and Technologies in Health; 2017 Mar. Available from <http://www.ncbi.nlm.nih.gov/books/NBK476392/> PubMed PMID: 29369567.

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