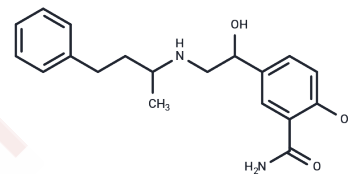


Labetalol

Chemical Properties

CAS No. :	36894-69-6
Formula:	C ₁₉ H ₂₄ N ₂ O ₃
Molecular Weight:	328.41
Storage:	Store at low temperature, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Labetalol (Apo-Labetalol) is a mixed alpha/beta-adrenergic antagonist. It is used to treat high blood pressure. It can be given by mouth for long term hypertension management or intravenously in severe hypertensive situations. The pharmacokinetics of labetalol is affected by the common CYP2C19 polymorphisms.
Targets(IC50)	Adrenergic Receptor

Solubility Information

Solubility	DMSO: 137.5 mg/mL (418.68 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	3.045 mL	15.2249 mL	30.4497 mL
5 mM	0.609 mL	3.045 mL	6.0899 mL
10 mM	0.3045 mL	1.5225 mL	3.045 mL
50 mM	0.0609 mL	0.3045 mL	0.609 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

Lang Y, Fu F, Sun D, Xi C, Chen F. Labetalol Prevents Intestinal Dysfunction Induced by Traumatic Brain Injury. PLoS One. 2015 Jul 17;10(7):e0133215. doi: 10.1371/journal.pone.0133215. eCollection 2015. PubMed PMID: 26186619; PubMed Central PMCID: PMC4505891.

Fischer JH, Sarto GE, Hardman J, et al. Influence of gestational age and body weight on the pharmacokinetics of labetalol in pregnancy. Clin Pharmacokinet. 2014 Apr;53(4):373-83. doi: 10.1007/s40262-013-0123-0. PubMed PMID: 24297680; PubMed Central PMCID: PMC4310214.

Liu-DeRyke X, Levy PD, Parker D Jr, Coplin W, Rhoney DH. A prospective evaluation of labetalol versus nicardipine for blood pressure management in patients with acute stroke. Neurocrit Care. 2013 Aug;19(1):41-7. doi: 10.1007/s12028-013-9863-9. PubMed PMID: 23760911.

Chan SW, Hu M, Ko SS, Tam CW, Fok BS, Yin OQ, Chow MS, Tomlinson B. CYP2C19 genotype has a major influence on labetalol pharmacokinetics in healthy male Chinese subjects. Eur J Clin Pharmacol. 2013 Apr;69(4):799-806. doi: 10.1007/s00228-012-1428-x. Epub 2012 Oct 23. PubMed PMID: 23090703.

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