

## Acebutolol

**Chemical Properties**

CAS No.:	37517-30-9
Formula:	C <sub>18</sub> H <sub>28</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	336.43
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Acebutolol is a cardioselective beta-1 adrenergic antagonist with antiarrhythmic and hypotensive activity and little effect on the bronchial receptors. Acebutolol has stabilizing and quinidine-like effects on cardiac rhythm, as well as weak inherent sympathomimetic action.
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**Solubility Information**

Solubility	Water: Insoluble 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	2.972 mL	14.862 mL	29.724 mL
5 mM	0.594 mL	2.972 mL	5.945 mL
10 mM	0.297 mL	1.486 mL	2.972 mL
50 mM	0.059 mL	0.297 mL	0.594 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. Khalit WN, Tay KS. Aqueous chlorination of acebutolol: kinetics, transformation by-products, and mechanism. *Environ Sci Pollut Res Int.* 2015 Oct 1. [Epub ahead of print] PubMed PMID: 26423291.
2. Muta K, Fukami T, Nakajima M. A proposed mechanism for the adverse effects of acebutolol: CES2 and CYP2C19-mediated metabolism and antinuclear antibody production. *Biochem Pharmacol.* 2015 Sep 25. pii: S0006-2952(15)00626-7. doi: 10.1016/j.bcp.2015.09.016. [Epub ahead of print] PubMed PMID: 26408002.
3. Banoth L, Thakur NS, Bhaumik J, Banerjee UC. Biocatalytic Approach for the Synthesis of Enantiopure Acebutolol as a  $\beta$ -Selective Blocker. *Chirality.* 2015 Jun;27(6):382-91. doi: 10.1002/chir.22444. Epub 2015 May 15. PubMed PMID: 25977108.
4. Ogródowczyk M, Dettlaff K, Kachlicki P, Marciniak B. Identification of Radiodegradation Products of Acebutolol and Alprenolol by HPLC/MS/MS. *J AOAC Int.* 2015 Jan-Feb;98(1):46-50. doi: 10.5740/jaoacint.14-096. PubMed PMID: 25857877.

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