

## Alprenolol hydrochloride, (S)-

## Chemical Properties

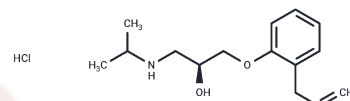
CAS No. : 15132-12-4

Formula: C<sub>15</sub>H<sub>24</sub>ClNO<sub>2</sub>

Molecular Weight: 285.81

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	Alprenolol hydrochloride, (S)- is a nonselective $\beta$ -blocker. It is also a serotonin 5HT <sub>1A</sub> receptor antagonist.
Targets(IC50)	Others,Adrenergic Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4988 mL	17.4941 mL	34.9883 mL
5 mM	0.6998 mL	3.4988 mL	6.9977 mL
10 mM	0.3499 mL	1.7494 mL	3.4988 mL
50 mM	0.070 mL	0.3499 mL	0.6998 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

- Soave M, Cseke G, Hutchings CJ, Brown AJH, Woolard J, Hill SJ. A monoclonal antibody raised against a thermo-stabilised  $\beta(1)$ -adrenoceptor interacts with extracellular loop 2 and acts as a negative allosteric modulator of a sub-set of  $\beta(1)$ -adrenoceptors expressed in stable cell lines. *Biochem Pharmacol.* 2018 Jan;147:38-54. doi: 10.1016/j.bcp.2017.10.015. Epub 2017 Nov 2. PubMed PMID: 29102678; PubMed Central PMCID: PMC5770334.
- Veinberg SL, Johnston KE, Jaroszewicz MJ, Kispal BM, Mireault CR, Kobayashi T, Pruski M, Schurko RW. Natural abundance (14)N and (15)N solid-state NMR of pharmaceuticals and their polymorphs. *Phys Chem Chem Phys.* 2016 Jun 29;18(26):17713-30. doi: 10.1039/c6cp02855a. PubMed PMID: 27314503.
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- Sistik P, Urinovska R, Brozmanova H, Kacirova I, Silhan P, Lemr K. Fast simultaneous LC/MS/MS determination of 10 active compounds in human serum for therapeutic drug monitoring in psychiatric medication. *Biomed Chromatogr.* 2016 Feb;30(2):217-24. doi: 10.1002/bmc.3538. Epub 2015 Jul 26. PubMed PMID: 26094602.

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