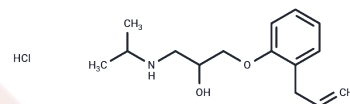


Alprenolol hydrochloride

Chemical Properties

CAS No. :	13707-88-5
Formula:	C ₁₅ H ₂₄ ClNO ₂
Molecular Weight:	285.81
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Alprenolol hydrochloride is a non-selective blocker of beta, and also is a antagonist of 5-HT _{1A} receptor.
Targets(IC ₅₀)	5-HT Receptor

Solubility Information

Solubility	DMSO: 95 mg/mL (332.39 mM), Sonication is recommended. H ₂ O: 50 mg/mL (174.94 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	3.4988 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.

Reference

Millan MJ et al. Novel benzodioxopiperazines acting as antagonists at postsynaptic 5-HT_{1A} receptors and as agonists at 5-HT_{1A} autoreceptors: a comparative pharmacological characterization with proposed 5-HT_{1A} antagonists. *J Pharmacol Exp Ther*, 1994 Jan, 268(1):337-52.

Schreiber R et al. Involvement of 5-HT_{1A} receptors in the anxiolytic action of S 14671 in the pigeon conflict test. *Pharmacol Biochem Behav*. 1995 Jun-Jul;51(2-3):211-5.

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