

(S)-(-)-Propranolol hydrochloride

Chemical Properties

CAS No. : 4199-10-4

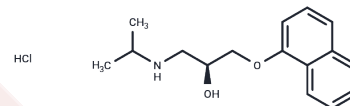
Formula: C₁₆H₂₂ClNO₂

Molecular Weight: 295.8

Store at low temperature

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	(S)-(-)-Propranolol hydrochloride, an adrenergic receptor antagonist, exhibits potential anticancer activity and may enhance the prognosis of burn patients.
Targets(IC50)	Adrenergic Receptor

Solubility Information

Solubility	H ₂ O: 5 mg/mL (16.9 mM),Sonication is recommended. DMSO: 250 mg/mL (845.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	Saline: 6.66 mg/mL (22.52 mM) PBS: 6.66 mg/mL (22.52 mM) <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3807 mL	16.9033 mL	33.8066 mL
5 mM	0.6761 mL	3.3807 mL	6.7613 mL
10 mM	0.3381 mL	1.6903 mL	3.3807 mL
50 mM	0.0676 mL	0.3381 mL	0.6761 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

Jillian G Baker , et al. The selectivity of beta-adrenoceptor antagonists at the human beta1, beta2 and beta3 adrenoceptors. Br J Pharmacol. 2005 Feb;144(3):317-22.

Zhao X, Li F, Cheng C, et al. Social isolation promotes tumor immune evasion via β 2-adrenergic receptor. Brain, Behavior, and Immunity. 2024

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