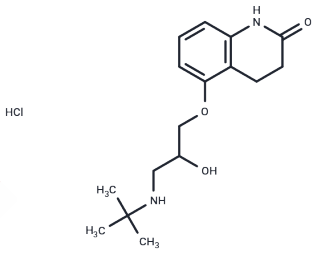
Data Sheet (Cat.No.T1282)

TargetMol

Carteolol hydrochloride

Chemical Properties



CAS No. :	51781-21-6
Formula:	C16H24N2O3·HCl
Molecular Weight:	328.83
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	Carteolol hydrochloride (Abbott-43326) is a synthetic quinolinone derivative, antihypertensive Carteolol Hydrochloride is a nonselective beta-adrenoceptor blocking agent for beta-1 and beta-2 receptors with no membrane-stabilizing activity but moderate intrinsic sympathomimetic effects. It is used for the treatment of hypertension and certain arrhythmias and as an anti-angina and antiglaucoma agent.
Targets(IC50)	Adrenergic Receptor

Solubility Information

Solubility	DMSO: 18.33 mg/mL (55.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.5 mg/mL (7.6 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0411 mL	15.2054 mL	30.4109 mL
5 mM	0.6082 mL	3.0411 mL	6.0822 mL
10 mM	0.3041 mL	1.5205 mL	3.0411 mL
50 mM	0.0608 mL	0.3041 mL	0.6082 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

Wheeldon NM, et al. Br J Clin Pharmacol. 1992 Apr;33(4):411-6.
Wu J, Xiao X, Li Z, et al. Enantioseparation of chiral β-blockers using polynorepinephrine-coated nanoparticles and chiral capillary electrophoresis. Analytical and bioanalytical chemistry. 2019: 1-9.
Wu J, Xiao X, Li Z, et al. Enantioseparation of chiral β-blockers using polynorepinephrine-coated nanoparticles and chiral capillary electrophoresis[J]. Analytical and bioanalytical chemistry. 2019: 1-9.