Data Sheet (Cat.No.T0007L)

TargetMol

(R)-(+)-Atenolol

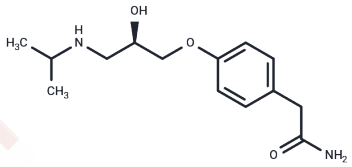
Chemical Properties

CAS No. : 56715-13-0

Formula: C14H22N2O3

Molecular Weight: 266.34

Storage: Store at low temperature
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	(R)-(+)-Atenolol ((R)-Atenolol) is a cardioselective beta-1 adrenergic blocker, which properties are similar to propranolol, but without a negative inotropic effect.
Targets(IC50)	Adrenergic Receptor

Solubility Information

Solubility	H2O: 67.6 mM,Sonication is recommended. DMSO: 199 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 mg/mL (7.51 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	3.7546 mL	18.773 mL	37.546 mL
5 mM	0.7509 mL	3.7546 mL	7.5092 mL
10 mM	0.3755 mL	1.8773 mL	3.7546 mL
50 mM	0.0751 mL	0.3755 mL	0.7509 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

Nuttall SL, et al. J Clin Pharm Ther. 2003 Jun;28(3):179-86.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481