Data Sheet (Cat.No.T69494)

TargetMol

Toliprolol

Chemical Properties

CAS No. : 2933-94-0

Formula: C13H21NO2

Molecular Weight: 223.31

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	Toliprolol is a non-selective beta-adrenergic receptor antagonist with moderate lipophilicity that affects heart rate, myocardial contractility, and cardiovascular load. Toliprolol has been used in studies of hypertension and cardiovascular pharmacology and is commonly employed as a tool compound for investigating beta-receptor-mediated signal transduction.
Targets(IC50)	Adrenergic Receptor
In vitro	Toliprolol (Compound 4d) acts as a β1-adrenergic receptor antagonist in isolated guinea pig left atria, with a pA2 value of 8.75 [1]. Toliprolol acts as a β2-adrenergic receptor antagonist in isolated guinea pig tracheal rings, with a pA2 value of 7.94 and a β1/β2 selectivity ratio of 6.5 [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4781 mL	22.3904 mL	44.7808 mL
5 mM	0.8956 mL	4.4781 mL	8.9562 mL
10 mM	0.4478 mL	2.239 mL	4.4781 mL
50 mM	0.0896 mL	0.4478 mL	0.8956 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

Mauleón D, et al. Synthesis and beta-adrenergic antagonism of 2-(aryloxy)-1-(2-piperidyl)ethanols. J Med Chem. 1988;31(11):2122-2126.

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