Data Sheet (Cat.No.T50109)

TargetMol

Guanethidine

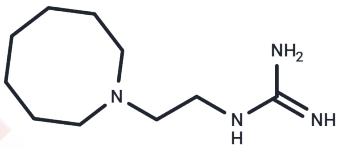
Chemical Properties

CAS No. : 55-65-2

Formula: C10H22N4

Molecular Weight: 198.31

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	Guanethidine sulphate, synthesized in 1959, is thought to lowing blood pressure by interfering with the metabolism of chemical transmitter substances in post-ganglionic sympathetic nerve fibres.
Targets(IC50)	Others,Adrenergic Receptor
In vitro	Sympathetic fibers ablation is associated with a loss of rat endothelial cell marker (RECA), but no significant effect of guanethidine was found on the survival of endothelial cells and mesenchymal stem cells in vitro [1].
In vivo	Guanethidine (30 mg/kg, s.c., 1 h) administration does not alter IL-18 induced hypernociception in TNFR1 (-/-) mice, indicating that this sympathetic blocker is ineffective in this context [2]. This outcome was observed in a study involving WT Balb/c, TNFR1 (-/-), and IFN-γ (-/-) mice, with guanethidine diluted in saline.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0426 mL	25.2131 mL	50.4261 mL
5 mM	1.0085 mL	5.0426 mL	10.0852 mL
10 mM	0.5043 mL	2.5213 mL	5.0426 mL
50 mM	0.1009 mL	0.5043 mL	1.0085 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.

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