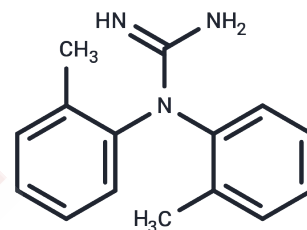


Ditolylguanidine

Chemical Properties

CAS No. :	97-39-2
Formula:	C ₁₅ H ₁₇ N ₃
Molecular Weight:	239.32
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	Ditolylguanidine (Di-o-tolylguanidine) is an agonist of sigma receptor (σ_1/σ_2 receptor).
Targets(IC50)	Sigma receptor

Solubility Information

Solubility	DMSO: 150 mg/mL (626.78 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: 4 mg/mL (16.71 mM), Sonication is recommended. <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	4.1785 mL	20.8925 mL	41.7851 mL
5 mM	0.8357 mL	4.1785 mL	8.357 mL
10 mM	0.4179 mL	2.0893 mL	4.1785 mL
50 mM	0.0836 mL	0.4179 mL	0.8357 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

Glennon, R. Pharmacophore Identification for Sigma-1 (σ_1) Receptor Binding: Application of the "Deconstruction - Reconstruction - Elaboration" Approach[J]. Mini-Reviews in Medicinal Chemistry, 2005, 5(10):927-940.

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