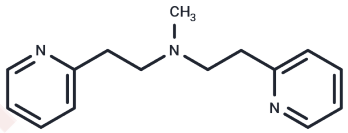
Data Sheet (Cat.No.T4196)

TargetMol

Betahistine EP Impurity C

Chemical Properties



CAS No. : 5452-87-9

Formula: C15H19N3

Molecular Weight: 241.33

Storage: High Volatility,Store at low temperature
Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Betahistine EP Impurity C (NSC19005) is structurally related to Betahistine and is a dimer of Betahistine.
Targets(IC50)	Histamine Receptor

Solubility Information

Solubility	H2O: Insoluble, DMSO: 60 mg/mL (248.62 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 (10.36 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	4.1437 mL	20.7185 mL	41.437 mL
5 mM	0.8287 mL	4.1437 mL	8.2874 mL
10 mM	0.4144 mL	2.0719 mL	4.1437 mL
50 mM	0.0829 mL	0.4144 mL	0.8287 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

Lewin JL,et al.Validation of density functional modeling protocols on experimental bis(mu-oxo)/mu-eta2:eta2-peroxo dicopper equilibria. J Biol Inorg Chem. 2007 Nov;12(8):1221-34.
Zhang CX,et al.Tuning copper-dioxygen reactivity and exogenous substrate oxidations via alterations in ligand electronics.J Am Chem Soc. 2003 Jan 22;125(3):634-5.