

Lidocaine

Chemical Properties

CAS No. : 137-58-6

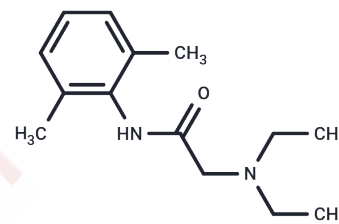
Formula: C₁₄H₂₂N₂O

Molecular Weight: 234.34

Keep away from direct sunlight

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	Lidocaine (Alphacaine) is an amide local anesthetic with anti-inflammatory properties in vitro and in vivo. It has this functions perhaps due to an attenuation of intracellular adhesion molecule-1 (ICAM-1), pro-inflammatory cytokines, and reduction of neutrophils influx.
Targets(IC50)	Apoptosis,ERK,NF-κB,MEK,Histamine Receptor,Sodium Channel

Solubility Information

Solubility	DMSO: 250 mg/mL (1066.83 mM),Sonication is recommended. H2O: 21.34 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 (8.53 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	4.2673 mL	21.3365 mL	42.673 mL
5 mM	0.8535 mL	4.2673 mL	8.5346 mL
10 mM	0.4267 mL	2.1337 mL	4.2673 mL
50 mM	0.0853 mL	0.4267 mL	0.8535 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

Sheets PL, et al. J Physiol. 2007 Jun 15;581(Pt 3):1019-31.

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