

3-Diethylamino-1-propanol

Chemical Properties

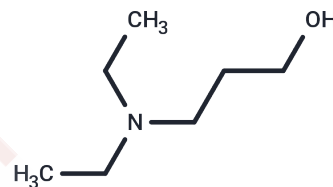
CAS No. : 622-93-5

Formula: C₇H₁₇NO

Molecular Weight: 131.22

Storage: 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	3-Diethylamino-1-propanol exhibits anticonvulsant effects.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 50 mg/mL (381.04 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 (15.24 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	7.6208 mL	38.1039 mL	76.2079 mL
5 mM	1.5242 mL	7.6208 mL	15.2416 mL
10 mM	0.7621 mL	3.8104 mL	7.6208 mL
50 mM	0.1524 mL	0.7621 mL	1.5242 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

L M Leadbetter, et al. Neuromodulatory role of serotonin in the anticonvulsant activity of 2-phenylbenzoate of 3-diethylamino-1-propanol.HCl (JAW-669). *Physiol Behav.* 1989 Jul;46(1):35-7.

Ida M.Bernhardsen, et al. Vapour-liquid equilibrium study of tertiary amines, single and in blend with 3-(methylamino)propylamine, for post-combustion CO₂ capture.

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