

Butamben

Chemical Properties

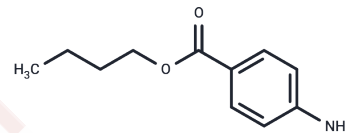
CAS No. : 94-25-7

Formula: C₁₁H₁₅NO₂

Molecular Weight: 193.24

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	Butamben (Butyl 4-aminobenzoate) is a long-duration local anesthetic used for the treatment of chronic pain.
Targets(IC50)	Calcium Channel,Potassium Channel,Sodium Channel

Solubility Information

Solubility	Ethanol: 36 mg/mL (186.3 mM),Sonication is recommended. H ₂ O: 35 mg/mL (181.12 mM),Sonication is recommended. DMSO: 55 mg/mL (284.62 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 mg/mL (10.35 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	5.1749 mL	25.8746 mL	51.7491 mL
5 mM	1.035 mL	5.1749 mL	10.3498 mL
10 mM	0.5175 mL	2.5875 mL	5.1749 mL
50 mM	0.1035 mL	0.5175 mL	1.035 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

Tzimopoulos D, et al. J Inorg Biochem. 2010 Apr;104(4):423-30.

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