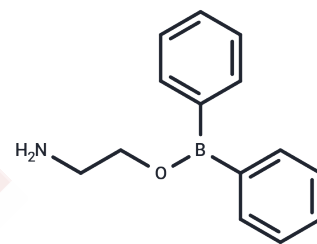


2-Aminoethyl diphenylborinate

Chemical Properties

CAS No. :	524-95-8
Formula:	C ₁₄ H ₁₆ BN ₂ O
Molecular Weight:	225.09
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	2-Aminoethyl diphenylborinate (2-APB) is a chemical compound that inhibits IP3 receptors and TRP channels, though it activates TRPV1, TRPV2, and TRPV3 at higher concentrations.
Targets(IC50)	Calcium Channel,TRP/TRPV Channel

Solubility Information

Solubility	DMSO: 255 mg/mL (1132.88 mM),Sonication is recommended. Ethanol: 10 mM,Heating is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	5% DMSO+95% Saline: 1.13 mg/mL (5.02 mM),Solution. <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	4.4427 mL	22.2133 mL	44.4267 mL
5 mM	0.8885 mL	4.4427 mL	8.8853 mL
10 mM	0.4443 mL	2.2213 mL	4.4427 mL
50 mM	0.0889 mL	0.4443 mL	0.8885 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

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