

Dodecylphosphocholine

Chemical Properties

CAS No. : 29557-51-5

Formula: C17H38NO4P

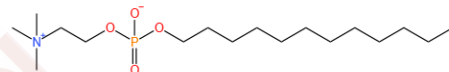
Molecular Weight: 351.46

Keep away from moisture, 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 | Dodecylphosphocholine (DPC) is a substrate-type inhibitor of pancreas phospholipase A2. Dodecylphosphocholine is a detergent. |
| Targets(IC50) | Others |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 50 mg/mL (142.26 mM), Sonication is recommended. H2O: 50 mg/mL (142.26 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 (5.69 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 | 2.8453 mL | 14.2264 mL | 28.4527 mL |
| 5 mM | 0.5691 mL | 2.8453 mL | 5.6905 mL |
| 10 mM | 0.2845 mL | 1.4226 mL | 2.8453 mL |
| 50 mM | 0.0569 mL | 0.2845 mL | 0.5691 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

Goyal S, Qin H, Lim L, Song J. Insoluble protein characterization by circular dichroism (CD) spectroscopy and nuclear magnetic resonance (NMR). *Methods Mol Biol.* 2015;1258:371-85. doi: 10.1007/978-1-4939-2205-5_21. Review. PubMed PMID: 25447876.

Stephenson BC, Beers K, Blankschtein D. Complementary use of simulations and molecular-thermodynamic theory to model micellization. *Langmuir.* 2006 Feb 14;22(4):1500-13. Review. PubMed PMID: 16460068.

Lee BL, Sykes BD, Fliegel L. Structural and functional insights into the cardiac Na⁺/H⁺ exchanger. *J Mol Cell Cardiol.* 2013 Aug;61:60-7. doi: 10.1016/j.yjmcc.2012.11.019. Epub 2012 Dec 7. Review. PubMed PMID: 23220151.

Craik DJ, Daly NL. NMR as a tool for elucidating the structures of circular and knotted proteins. *Mol Biosyst.* 2007 Apr;3(4):257-65. Epub 2007 Jan 25. Review. PubMed PMID: 17372654.

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