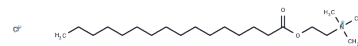


Palmitoylcholine (chloride)

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2932-74-3 |
| Formula: | C ₂₁ H ₄₄ ClNO ₂ |
| Molecular Weight: | 378.04 |
| 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 | Palmitoylcholine is an acyl choline.1It inhibits protein kinase C activity when used at a concentration of 100 μM.2Palmitoylcholine induces hemolysis in rat erythrocytes.3Plasma levels of palmitoylcholine are decreased in female patients with myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS).1 |
| Targets(IC50) | Others,PDE |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 14 mg/mL (37.03 mM),Sonication is recommended. Ethanol: 20 mg/mL (52.9 mM),Sonication is recommended. DMF: 20 mg/mL (52.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.6452 mL | 13.2261 mL | 26.4522 mL |
| 5 mM | 0.529 mL | 2.6452 mL | 5.2904 mL |
| 10 mM | 0.2645 mL | 1.3226 mL | 2.6452 mL |
| 50 mM | 0.0529 mL | 0.2645 mL | 0.529 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

Germain, A., Barupal, D.K., Levine, S.M., et al. Comprehensive circulatory metabolomics in ME/CFS reveals disrupted metabolism of acyl lipids and steroids *Metabolites* 10(1)34(2020)

Nakadate, T., and Blumberg, P.M. Modulation by palmitoylcarnitine of protein kinase C activation *Cancer Res.* 47(24 Pt 1)6537-6542(1987)

Cho, K.S., and Proulx, P. Interactions of acyl carnitines and other lysins with erythrocytes and reconstituted erythrocyte lipoproteins *Biochim. Biophys. Acta* 318(1)50-60(1973)

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