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Product Information



PtdIns-(4)-P₁ (1,2-dipalmitoyl) (ammonium salt)

Item No. 64923

Formal Name: 1-(1,2-dihexadecanoylphosphatidyl) inositol-4-phosphate, diammonium salt

Synonym: DPPI-4-P₁

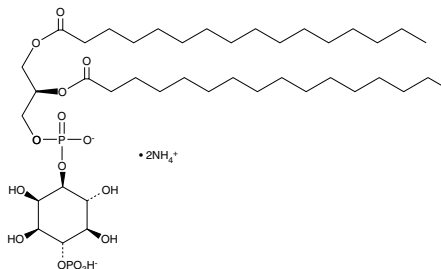
MF: C₄₁H₇₈O₁₆P₂ • 2NH₄

FW: 925.1

Purity: ≥98%

Stability: ≥1 year at -20°C

Supplied as: A lyophilized powder



Laboratory Procedures

For long term storage, we suggest that PtdIns-(4)-P₁ (1,2-dipalmitoyl) (ammonium salt) be stored as supplied at -20°C. It should be stable for at least one year.

PtdIns-(4)-P₁ (1,2-dipalmitoyl) (ammonium salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the PtdIns-(4)-P₁ (1,2-dipalmitoyl) (ammonium salt) in an organic solvent purged with an inert gas. PtdIns-(4)-P₁ (1,2-dipalmitoyl) (ammonium salt) is soluble in organic solvents such as chloroform and methanol. PtdIns-(4)-P₁ (1,2-dipalmitoyl) (ammonium salt) is sparingly soluble in aqueous buffers. PtdIns-(4)-P₁ (1,2-dipalmitoyl) (ammonium salt) can also be dissolved in a solution of chloroform:methanol:water (3:2:0.5); it will be soluble to at least 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

The phosphatidylinositol phosphates represent a small percentage of total membrane phospholipids. However, they play a critical role in the generation and transmission of cellular signals.^{1,2} PtdIns-(4)-P₁ can be further phosphorylated to give triphosphates such as PtdIns-(3,4,5)-P₃. These can also be cleaved by PI-specific phospholipase C (PLC) to give inositol triphosphates (IP₃). The diacyl glycerol and IP₃ generated by this PLC-cleavage are also part of a complex biochemical and signal transduction cascade which has not been entirely elucidated. For some additional reading, please see references 2-4.

References

1. Lapetina, E.G., Billah, M.M., and Cuatrecasas, P. The phosphatidylinositol cycle and the regulation of arachidonic acid production. *Nature* **292**, 367-369 (1981).
2. Majerus, P.W. Inositol phosphate biochemistry. *Annu. Rev. Biochem.* **61**, 225-250 (1992).
3. Pike, L.J. and Casey, L. Localization and turnover of phosphatidylinositol 4,5-bisphosphate in caveolin-enriched membrane domains. *J. Biol. Chem.* **271**, 26453-26456 (1996).
4. Berridge, M.J. Inositol trisphosphate and calcium signalling. *Nature* **361**, 315-325 (1993).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/64923

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