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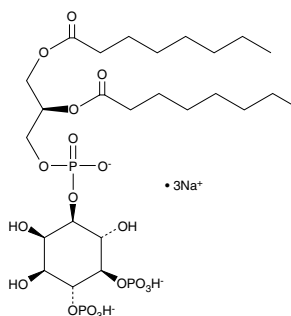
Product Information



PtdIns-(4,5)-P₂ (1,2-dioctanoyl) (sodium salt)

Item No. 64910

Formal Name: 1-(1,2R-dioctanoylphosphatidyl)inositol-4,5-bisphosphate, trisodium salt
Synonyms: DOPI-4,5-P₂, Phosphatidylinositol-4,5-bisphosphate C-8
MF: C₂₅H₄₆O₁₉P₃ • 3Na
FW: 812.5
Purity: ≥97%
Stability: ≥1 year at -20°C
Supplied as: A lyophilized powder



Laboratory Procedures

For long term storage, we suggest that PtdIns-(4,5)-P₂ (1,2-dioctanoyl) (sodium salt) be stored as supplied at -20°C. It should be stable for at least one year.

PtdIns-(4,5)-P₂ (1,2-dioctanoyl) (sodium salt) is supplied as a lyophilized powder. For biological experiments, we suggest that organic solvent-free aqueous solutions of PtdIns-(4,5)-P₂ (1,2-dioctanoyl) (sodium salt) be prepared by directly dissolving the lyophilized powder in aqueous buffers. It is miscible in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

The phosphatidylinositols (PtdIns) 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 are phosphorylated to mono- (PtdIns-P; PIP), di- (PtdIns-P₂; PIP₂), and triphosphates (PtdIns-P₃; PIP₃). Hydrolysis of PIP₂ by PI-specific phospholipase C generates IP₃ and diacylglycerol (DAG). The DAG and IP₃ produced by this reaction are part of a complex biochemical and signal transduction cascade that is at the frontier of scientific research today.

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).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/64910

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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For further details, please refer to our **Warranty and Limitation of Remedy** located on our website and in our catalog.

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