PRODUCT INFORMATION



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

Item No. 10007762

Formal Name: 1-(1,2-dihexanoylphosphatidyl)inositol-4,5-

bisphosphate, trisodium salt

Synonyms: DHPI-4,5-P₂,

> Phosphatidylinositol-4,5-bisphosphate C-6, PI(4,5)P₂ (6:0/6:0), PIP2[4',5'](6:0/6:0)

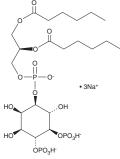
MF: C₂₁H₃₈O₁₉P₃ • 3Na

756.4 FW: **Purity:** ≥98%

Supplied as: A lyophilized powder

Storage: -20°C Stability: ≥5 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

Ptdlns-(4,5)-P₂ (1,2-dihexanoyl) (sodium salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the Ptdlns-(4,5)-P2 (1,2-dihexanoyl) (sodium salt) in water. We do not recommend storing the aqueous solution for more than one day.

Description

The phosphatidylinositol (Ptdlns) 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-(4,5)-P₂-(1,2-dihexanoyl) is a synthetic analog of natural PtdIns featuring C6:0 fatty acids at the sn-1 and sn-2 positions. The compound features the same inositol and diacylglycerol (DAG) stereochemistry as that of the natural compound. The natural compound is the product of Ptdlns-4-phosphate 5-kinase acting on Ptdlns-(4)-P₁. Hydrolysis of Ptdlns-(4,5)-P₂ by phosphoinositide (PI)-specific phospholipase C generates inositol triphosphate (IP₂) and DAG which are key second messengers in an intricate biochemical signal transduction cascade.

References

- 1. Exton, J.H. Regulation of phosphoinositide phospholipases by hormones, neurotransmitters, and other agonists linked to G proteins. Annu. Rev. Pharmacol. Toxicol. 36, 481-509 (1996).
- 2. Majerus, P.W. Inositol phosphate biochemistry. Annu. Rev. Biochem. 61, 225-250 (1992).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM