



# SZABO SCANDIC

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## Produktinformation



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# Product Information



## PtdIns-(3,4)-P<sub>2</sub> (1,2-dipalmitoyl) (sodium salt)

Item No. 64922

**Formal Name:** 1-(1,2R-dihexadecanoylphosphatidyl)inositol-3,4-bisphosphate, trisodium salt

**Synonyms:** DPPI-3,4-P<sub>2</sub>, Phosphatidylinositol-3,4-diphosphate C-16

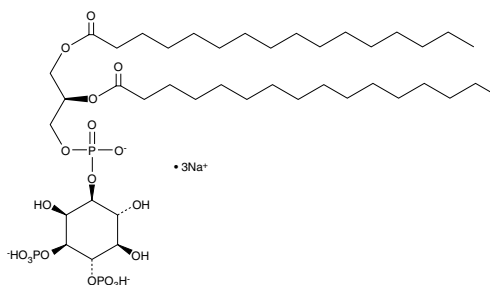
**MF:** C<sub>41</sub>H<sub>78</sub>O<sub>19</sub>P<sub>3</sub> • 3Na

**FW:** 1,036.9

**Purity:** ≥98%

**Stability:** ≥1 year at -20°C

**Supplied as:** A lyophilized powder



### Laboratory Procedures

For long term storage, we suggest that PtdIns-(3,4)-P<sub>2</sub> (1,2-dipalmitoyl) (sodium salt) be stored as supplied at -20°C. It should be stable for at least one year.

PtdIns-(3,4)-P<sub>2</sub> (1,2-dipalmitoyl) (sodium salt) is supplied as a lyophilized powder. For biological experiments, we suggest that organic solvent-free aqueous solutions of PtdIns-(3,4)-P<sub>2</sub> (1,2-dipalmitoyl) (sodium salt) be prepared by directly dissolving the lyophilized powder in aqueous buffers. The solubility of PtdIns-(3,4)-P<sub>2</sub> (1,2-dipalmitoyl) in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

The phosphatidylinositols (PtdIns) phosphates represent a small percentage of total membrane phospholipids. However, they play a critical role in the generation and transmission of cellular signals.<sup>1,2</sup> PtdIns are phosphorylated to mono- (PtdIns-P; PIP), di- (PtdIns-P<sub>2</sub>; PIP<sub>2</sub>) and triphosphates (PtdIns-P<sub>3</sub>; PIP<sub>3</sub>). Hydrolysis of PIP<sub>2</sub> by PI-specific phospholipase C generates IP<sub>3</sub> and diacylglycerol (DAG). The DAG and IP<sub>3</sub> 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/64922](http://www.caymanchem.com/catalog/64922)

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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.**

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