

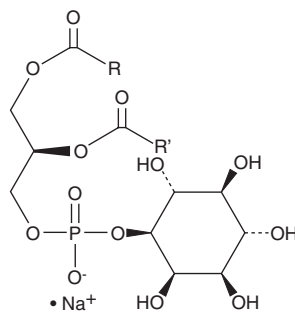
PRODUCT INFORMATION



Phosphatidylinositols (plant, wheat germ) (sodium salt)

Item No. 33671

CAS Registry No.: 84776-78-3
Formal Name: (R)-2,3-bis(((9Z,12Z)-octadeca-9,12-dienoyl)oxy)propyl ((1S,2R,3R,4S,5S,6R)-2,3,4,5,6-pentahydroxycyclohexyl) phosphate
MF: C₄₅H₇₈O₁₃P • Na (for linoleoyl)
FW: 881.1
Purity: ≥98%
Supplied as: A solution in chloroform
Storage: -20°C
Stability: ≥1 year



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

Laboratory Procedures

Phosphatidylinositols (plant, wheat germ) (sodium salt) is supplied as a solution in chloroform. To change the solvent, simply evaporate the chloroform under a gentle stream of nitrogen and immediately add the solvent of choice. Phosphatidylinositols (plant, wheat germ) (sodium salt) is soluble in ethyl ether.

Description

Phosphatidylinositols are glycerophospholipids that contain a glycerol backbone, two non-polar fatty acid tails, and a polar inositol head group.^{1,2} They are synthesized from cytidine diphosphate diacylglycerol (CPD-DAG) and myo-inositol by phosphoinositol synthase and represent approximately 10% of total cellular phospholipids. Phosphatidylinositols can be phosphorylated on their inositol rings to produce phosphoinositides, which have been implicated in calcium regulation, vesicle trafficking, mitogenesis, cell survival, and rearrangement of actin. Phosphatidylinositols (plant, wheat germ) is a mixture of phosphatidylinositols isolated from wheat germ that have variable fatty acyl chain lengths with linoleoyl being the most prevalent.

References

1. De Craene, J.-O., Bertazzi, D.L., Bär, S., *et al.* Phosphoinositides, major actors in membrane trafficking and lipid signaling pathways. *Int. J. Mol. Sci.* **18(3)**, E634 (2017).
2. Toliás, K.F. and Cantley, L.C. Pathways for phosphoinositide synthesis. *Chem. Phys. Lipids* **98(1-2)**, 69-77 (1999).

WARNING

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

SAFETY DATA

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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