

Product Name: PtdIns-(3,4,5)-P3 (1-stearoyl, 2-arachidonoyl) (sodium salt)
Cat. No.: GC44751

Cas. No.

SMILES CCCCCCCCCCCCCCCCC(OC(OC(CCC/C=C\C/C=C\C/C=C\C/C=C\C/C=C\CCCC)=O)COP([O-])(O[C@@H]1[C@H](O)[C@H](OP([O-])(O)=O)[C@@H](OP([O-])(O)=O)[C@H](OP([O-])(O)=O)[C@H]1O)=O)=O.[Na+].[Na+].[Na+].[Na+]

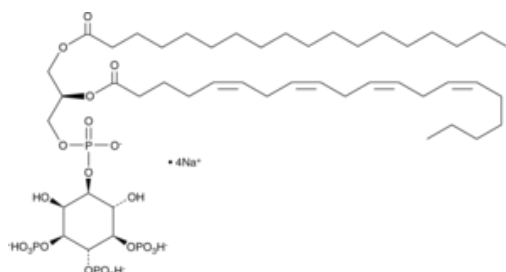
Formula	C47H82O22P4•4Na	M.Wt	1215
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Solubility	CHCl ₃ :CH ₃ OH:Water (3:2:1): 10 mg/ml,PBS (pH 7.2): Freely soluble	Storage	Store at -20°C
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General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure



The phosphatidylinositol (PtdIns) phosphates represent a small percentage of total membrane phospholipids. However, they play a critical role in the generation and transmission of cellular signals. PtdIns-(3,4,5)-P₃ can serve as an anchor for the binding of signal transduction proteins bearing pleckstrin homology (PH) domains. Centaurin α and Akts are examples of PtdIns-(3,4,5)-P₃-binding proteins. Protein-binding to PtdIns-(3,4,5)-P₃ is important for cytoskeletal rearrangements and membrane trafficking. PtdIns-(3,4,5)-P₃ is resistant to cleavage by PI-specific PLC. Thus, it is likely to function in signal transduction as a modulator in its own right, rather than as a source of inositol tetraphosphates. For further reading on inositol phospholipids, see also references and .

Caution: Product has not been fully validated for medical applications. For research use only.

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