

Product Name: PtdIns-(3,4,5)-P3 (1-stearoyl, 2-docosahexaenoyl) (sodium salt)
Cat. No.: GC44752

Cas. No.

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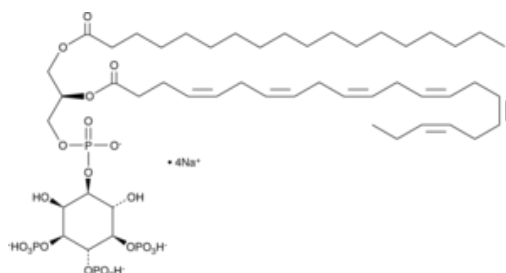
Formula	C ₄₉ H ₈₂ O ₂₂ P ₄ •4Na	M.Wt	1239
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Solubility	Water: 10 mg/ml	Storage	Store at -20°C
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General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic 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



Phosphatidyl inositol triphosphate (PtdIns-(3,4,5)-P3) is a membrane phospholipid that may be cleaved by phospholipase C (PLC) to produce the second messengers inositol tetrakisphosphate (IP4) and diacylglycerol (DAG). IP4 triggers an increase in intracellular calcium. PtdIns-(3,4,5)-P3 (1-stearoyl, 2-docosahexaenoyl) is an uncommon phospholipid having the ω -3 fatty acid docosahexaenoate (DHA) in the sn-2 position. In addition to releasing an unusual DHA-containing DAG in response to PLC, this phospholipid can serve as a source of DHA in response to phospholipases A2 (PLA2). Importantly, the inositol head group of PtdIns-(3,4,5)-P3 can serve as an anchor for the binding of proteins bearing pleckstrin homology (PH) domains.

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

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