Product Data Sheet

Product Name: Phosphatidylinositols (soy) (sodium salt)
Cat. No.: GC18636

Chemical Properties

Cas. No.	383907-36-6		
SMILES	[R]C(OC[C@H](OC([R])=O)COP([O-])(O[C@@H]1[C@H](O)[C@H](O)[C@@H](O)[C@H](O)[C@H]1O)=O)=O.[Na+]		
Formula	$C_{45}H_{78}O_{13}P.Na$ (for linoleoyl)	M.Wt	881.1
Solubility	Methanol : 6.25 mg/mL (Need ultrasonic); DMSO : 4.17 mg/mL (ultrasonic and warming and heat to 60°C)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Phosphatidylinositols are glycerophospholipids that contain a glycerol backbone, two non-polar fatty acid tails, and a polar inositol head group. They are synthesized from cytidine diphosphate diacylglycerol (CPD-DAG) and myoinositol 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 (soy) is a mixture of phosphatidylinositols isolated from soy that have variable fatty acyl chain lengths with linoleoyl being the most prevelant.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA