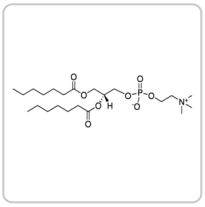


Toutes les photos (2)

Documents

FDS

COO/COA

Plus de documents »

850306P Avanti

07:0 PC (DHPC)

1,2-diheptanoyl-*sn*-glycero-3-phosphocholine, powder

Synonyme(s):
DHPC; PC(7:0/7:0)

Empirical Formula (Hill Notation):
$C_{22}H_{44}NO_8P$

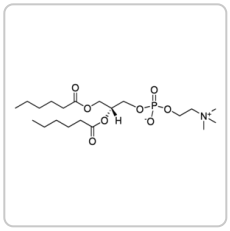
Numéro CAS: 39036-04-9 **Poids moléculaire:** 481.56

Référence	Conditionnement	Disponibilité		Prix	Quantité
850306P-25MG	25 MG	Only 1 left in stock (more on the way)	Détails...	131,00 €	− +
850306P-200MG	200 MG	Only 1 left in stock (more on the way)	Détails...	239,00 €	− +
850306P-500MG	500 MG	Only 3 left in stock (more on the way)	Détails...	435,00 €	− +
850306P-1G	1 G	Only 4 left in stock (more on the way)	Détails...	652,00 €	− +

Demander une commande en gros

Ajouter au panier

PRODUITS RECOMMANDÉS



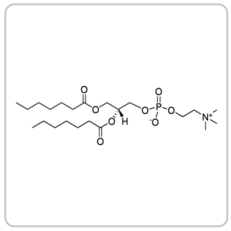
Avanti

850305P

06:0 PC (DHPC)

1,2-dihexanoyl-*sn*-glycero-3-phosphocholine, powder

Consulter le prix et la disponibilité



Avanti

850306C

07:0 PC (DHPC)

1,2-diheptanoyl-*sn*-glycero-3-phosphocholine, chloroform

Consulter le prix et la disponibilité

PROPRIÉTÉS

Essai/Dosage	>99% (TLC)
Forme	powder
Conditionnement	pkg of 1 × 1 g (850306P-1g) pkg of 1 × 200 mg (850306P-200mg) pkg of 1 × 25 mg (850306P-25mg) pkg of 1 × 500 mg (850306P-500mg)
manufacturer/tradename	Avanti Polar Lipids 850306P
Expédié(e)(s) dans	dry ice
Temp. de stockage	

Temp. de stockage	−20°C
SMILES string	[O-]P(OCC[N+](C)(C)C)(OC[C@]([H])(OC(CCCCCC)=O)COC(CCCCCC)=O)=O
InChI	1S/C22H44NO8P/c1-6-8-10-12-14-21(24)28-18-20(31-22(25)15-13-11-9-7-2)19-30-32(26,27)29-17-16-23(3,4)5/h20H,6-19H2,1-5H3/t20-/m1/s1
InChI key	RBFSPQDASPEAID-HXUWFJFHSA-N

Catégories apparentées

Detergents - Anionic, Cationic, Zwitterionic, Anti-foaming

DESCRIPTION

Description générale

The list of Phosphatidylcholine products offered by Avanti is designed to provide compounds having a variety of physical properties. Products available include short chain (C3-C8 are water soluble and hygroscopic), saturated, multi-unsaturated and mixed acid PC's. All of the products are purified by HPLC, and special precautions are taken to protect the products for oxidization and hydrolysis. DHPC is an ultra pure compound.

Application

1,2-diheptanoyl-*sn*-glycero-3-phosphocholine (DHPC) has been in the extraction buffer for RNA isolation from mice cortex samples and glial cells. It has also been used for the suspension of the protein loaded anti-GFP (green fluorescent protein) beads prior to immunoprecipitation.

Actions biochimiques/physiologiques

DHPC preserves the native conformation and therefore the activity of the solubilized proteins. The three dimensional structure and activity of proteins are retained not only at the 10-15mM DHPC concentrations at which maximum solubilization usually occurs, but also over a large range of DHPC concentrations (up to 40mM). Not only is the three dimensional structure and hence the activity of most protein retained in excess DHPC, but the proteins also appear to be stable in DHPC. Such a result suggests that the direct interaction of DHPC with integral membrane proteins is weak. If the interaction of DHPC with membrane proteins is indeed weak, it follows that intrinsic membrane lipids will remain associated with the membrane proteins. Solubilization Mechanism DHPC is thought to exert a wedge-like effect on the neighboring lipids, mainly due to its bulky polar group and short hydrocarbon chains. This produces membrane destabilization at relatively low DHPC concentrations. All membranes investigated are solubilized at an identical DHPC / lipid ratio. This finding is taken as evidence that DHPC primarily interacts with the lipid bilayer and not with the membrane proteins. The principle underlying the preservation of the native protein structure is the inability of DHPC to displace intrinsic membrane lipids from integral membrane proteins.Advantages of DHPC: DHPC preserves the activity of solubilized membrane proteins. DHPC is not readily oxidized, and is stable over a wide pH range (4-10). DHPC forms micelles rather than bilayers when dispersed in water. (CMC = 1.4mM). DHPC shows a broad size distribution depending on the NaCl concentration of suspension. DHPC does not interfere with spectrophotometric measurements.

Conditionnement

20 mL Clear Glass Screw Cap Vial (850306P-200mg)

30 mL Amber Wide Mouth Bottle with Screw Cap (850306P-500mg)

5 mL Clear Glass Sealed Ampule (850306P-25mg)

60 mL Amber Wide Mouth Screw Cap Glass Bottle (850306P-1g)

PRODUITS APPARENTÉS

Souvent Commandé Avec Ce Produit

11836170001

cOmplete™, Mini, EDTA-free Protease Inhibitor Cocktail, Protease Inhibitor Cocktail Tablets provided in a glass vial, Tablets provided in a glass vial

View Pricing

850345P

14:0 PC (DMPC), 1,2-dimyristoyl-*sn*-glycero-3-phosphocholine, powder

View Pricing

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage
13 - Non Combustible Solids

WGK
WGK 3

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

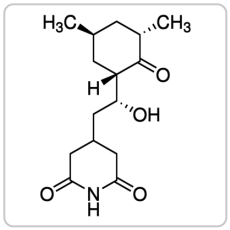
Rechercher

Plus De Documents

Structure Search

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



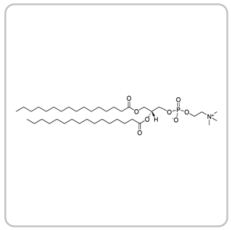
Sigma-Aldrich

C7698

Cycloheximide

from microbial, ≥94% (TLC)

Consulter le prix et la disponibilité



Avanti

850355P

16:0 PC (DPPC)

1,2-dipalmitoyl-*sn*-glycero-3-phosphocholine, powder

Consulter le prix et la disponibilité

ARTICLES REVUS PAR DES PAIRS

Glial cell regulation of rhythmic behavior

Jackson FB, et al.
Methods in Enzymology, 552, 45-73 (2015)

Molecular characterization of neuronal cell types based on patterns of projection with Retro-TRAP

Nectow AR, et al.
Nature Protocols, 10(9), 1319-1319 (2015)

Addition of lipid substituents of mammalian protein glycosylphosphoinositol anchors.

N Singh et al.
Molecular and cellular biology, 14(1), 21-31 (1994-01-01)

A single metabolic path leading to synthesis of ether lipids is known in animal cells, the major products of which are plasmalogens. To learn whether this peroxisomal path is also responsible for the synthesis of base-resistant lipid components of glycosylphosphoinositol

Profiling changes in cortical astroglial cells following chronic stress

Simard S, et al.
Neuropsychopharmacology, 43(9), 1961-1961 (2018)

Comparison of RNA isolation procedures for analysis of adult murine brain and spinal cord astrocytes.

Kamil Sebastian Rosiewicz et al.
Journal of neuroscience methods, 333, 108545-108545 (2019-12-11)

Molecular analyses of cell populations and single cells have been instrumental in the advancement of our understanding of the physiology and pathologic processes of the nervous system. However, the limitation of these methods is the dependence on a gentle, efficient

Afficher tous les articles scientifiques apparentés

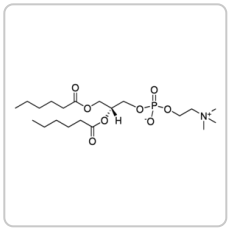
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Critical Micelle Concentrations (CMCs) - Avanti® Polar Lipids

The critical micelle concentration (CMC) can be approximately defined as the lipid monomer concentration at which appreciable amounts (>5% of total) of micellar aggregates first begin to appear in the equilibrium: nM1<=>Mn

PRODUITS CONSULTÉS RÉCEMMENT



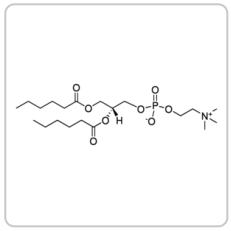
Avanti

850305P

06:0 PC (DHPC)

1,2-dihexanoyl-*sn*-glycero-3-phosphocholine, powder

Consulter le prix et la disponibilité



Avanti

850305C

06:0 PC (DHPC)

1,2-dihexanoyl-*sn*-glycero-3-phosphocholine, chloroform

Consulter le prix et la disponibilité

SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

Contacter notre Service technique

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