

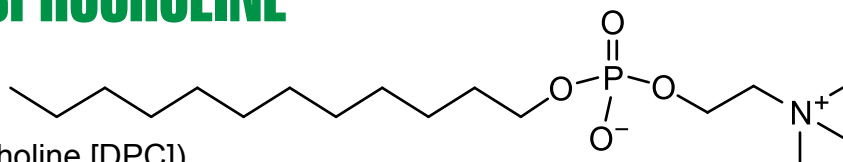
AVANTI'S DETERGENTS FOR MEMBRANE PROTEIN SOLUBILIZATION

ALKYL PHOSPHOCHOLINE

MAPCHO-12

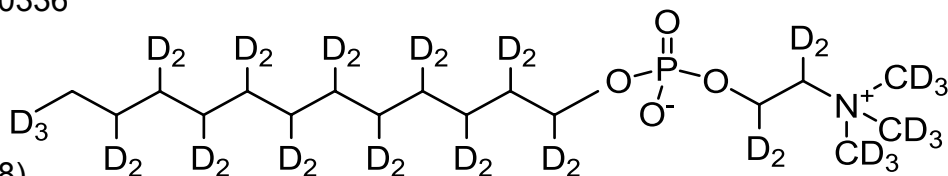
(dodecylphosphocholine [DPC])

Avanti Number 850336



MAPCHO[®]-12 (d38)

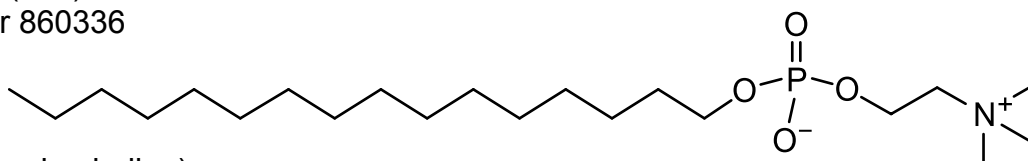
Avanti Number 860336



MAPCHO-16

(hexadecylphosphocholine)

Avanti Number 850337



Also in Stock:
MAPCHO[®]-10, & 14

• We have investigated the effect of ionic strength on the aggregation behavior of n-dodecyl phosphocholine. On the basis of the classical Corrin-Harkins relation, the critical micellar concentration of this detergent decreases with a biphasic trend on lithium chloride addition. It is nearly constant below 150 mM salt, with a mean value of 0.91 mM, whereas it undergoes a dramatic 80-fold decrease in 7 M LiCl. Such a drop in the critical micellar concentration could be explained by the effect of salting out and the implication of phosphocholine head groups on the organization of surrounding water. Knowledge of the effective critical micellar concentration of n-dodecyl phosphocholine could be useful in the purification of membrane proteins in non-denaturing conditions.

Palladino P, Rossi F, Ragone R. Effective critical micellar concentration of a zwitterionic detergent: a fluorimetric study on n-dodecyl phosphocholine. *J Fluoresc.* 2010 Jan;20(1):191-6.

• Vasudevan SV, Schulz J, Zhou C, Cocco MJ. Protein folding at the membrane interface, the structure of Nogo-66 requires interactions with a phosphocholine surface.

Proc Natl Acad Sci U S A. 2010 Apr 13;107(15):6847-51.

• Liang B, Tamm LK. Structure of outer membrane protein G by solution NMR spectroscopy.

Proc Natl Acad Sci U S A. 2007 Oct 9;104(41):16140-5.

• Brunecky R, Lee S, Rzepecki PW, Overduin M, Prestwich GD, Kutateladze AG, Kutateladze TG. Investigation of the binding geometry of a peripheral membrane protein.

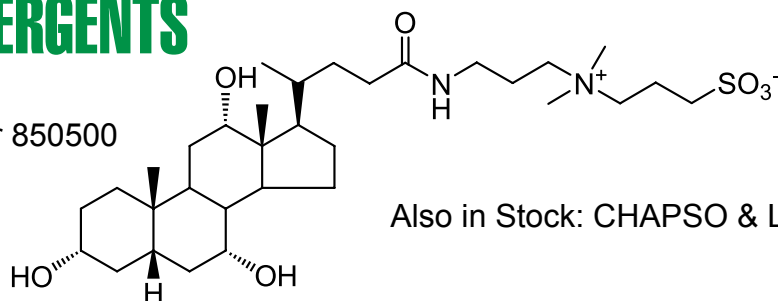
Biochemistry. 2005 Dec 13;44(49):16064-71.

continued overleaf

Pure Lipid Detergents

ZWITTERIONIC DETERGENTS

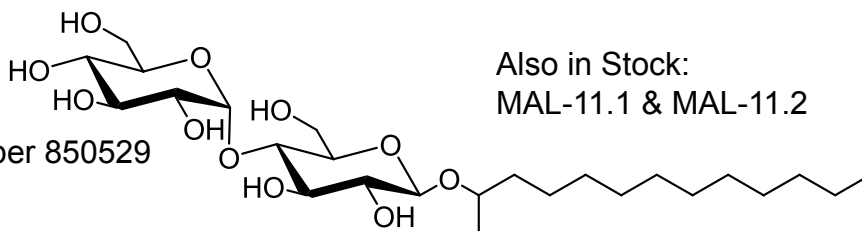
CHAPS
Avanti Number 850500



Also in Stock: CHAPSO & LDAO

BRANCHED CHAIN DETERGENTS

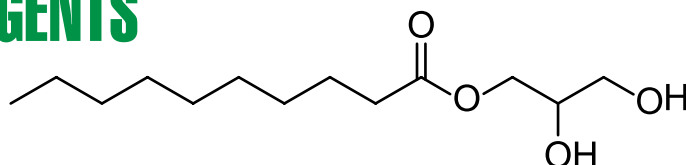
MAL-12.1
Avanti Number 850529



Also in Stock:
MAL-11.1 & MAL-11.2

NONIONIC DETERGENTS

10 MAG
Avanti Number 850544



Also in Stock:

MEGA-8
Facade®-EM

MEGA-9
Facade®-TEM

MEGA-10
Facade®-TEG

GDN
Facade®-TEG

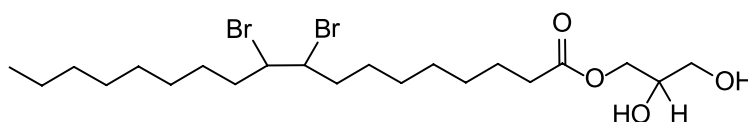
DDM

OGP
Facade®-EPC

NGP
Facade®-TFA1

LIPID MESOPHASE CRYSTALLIZATION

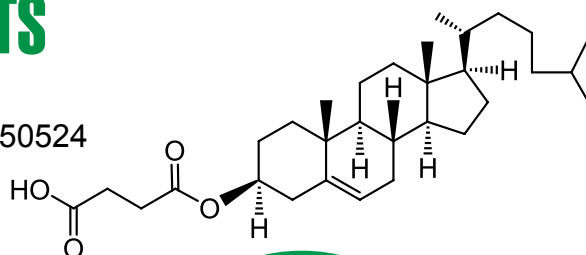
18:0 Dibromo MG
Avanti Number 860777



Also in Stock: 7.7 MAG, 7.8 MAG, 7.9 MAG, 8.6 MAG, 8.7 MAG, 8.8 MAG, 8.9 MAG & 9.7 MAG and (2S,3S)-Phytantriol & Phytantriol (mixed isomers)

ANIONIC DETERGENTS

CHEMS
Avanti Number 850524



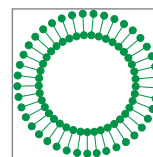
Also from Avanti:
SHORT CHAIN PC
LYSO PC
LYSO PG



www.avantilipids.com
Phone: 800-227-0651
Email: info@avantilipids.com



Check out
our NEW
Website!



Avanti®
POLAR LIPIDS, INC.