

More than (Phospho) Lipids

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More than Lipids

Solutions for the entire product cycle: Research to Commercialization.

● **Research Products**
Highest Purity Lipid Reagents

● **cGMP Manufacturing**
API & Contract Manufacturing

● **Adjuvants**
Vaccine Development

● **Analytical Services**
Lipid Analysis

● **Lipidomics**
MS Standards, Antibodies & Lipid Toolbox

● **Formulations**
Liposomes & Nanoparticles

● **Equipment**
Liposome Production Tools

● **Custom Synthesis**
Synthesis & Beyond



Research Products Division

Highest Purity Lipid Reagents

- Phospholipids
- Sphingolipids
- Sterols
- Fluorescent Lipids
- **Detergents**
- Cationic Lipids
- Neutral Lipids
- Coenzyme A & Derivatives
- Lipidomics
- **Polymers**



**99%
pure**

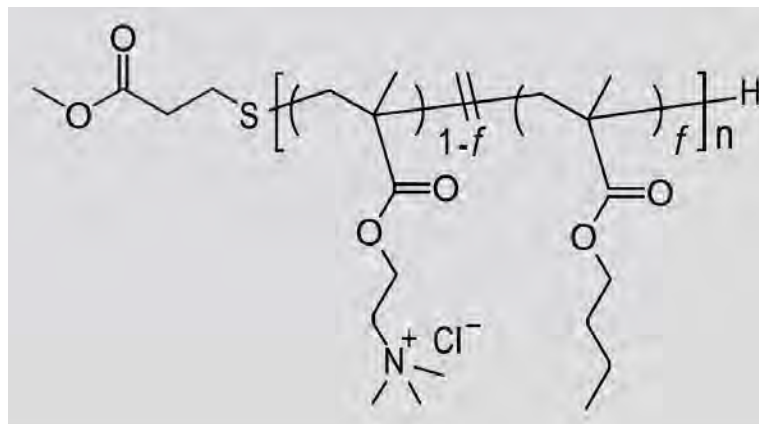
We sell the **good** stuff.



Avanti[®]
POLAR LIPIDS, INC.

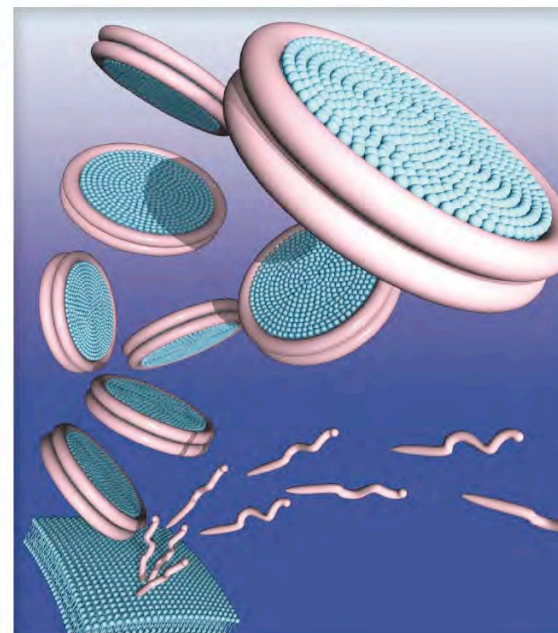
Amphiphilic Polymethacrylate (PMA) Copolymers

Perform Structural and Functional Studies on a Variety of Membrane Proteins



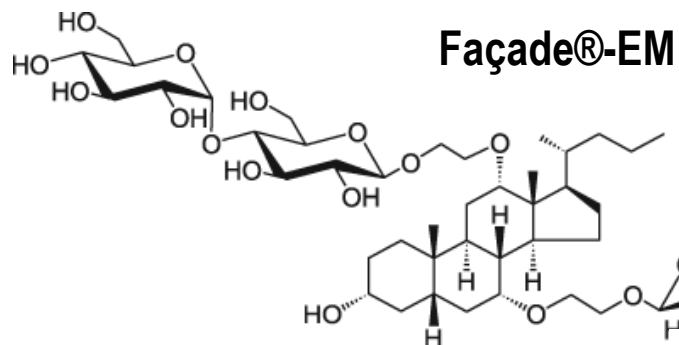
Advantages of PMA Based Lipid Nanodiscs:

- Spontaneously Forms Lipid Nanodiscs through Fragmentation of Lipid Bilayer
- Amenable to Biophysical Characterization using CD, UV/vis, and Fluorescence Spectroscopy
- Ability to Produce Nanodiscs of Various Sizes
- Larger PMA Polymer Nanodiscs can be aligned in a magnetic field allowing for solid-state NMR studies on membrane proteins or peptides.



Facial Amphiphiles for Membrane Protein Stabilization and Crystallization

Available Exclusively from Avanti

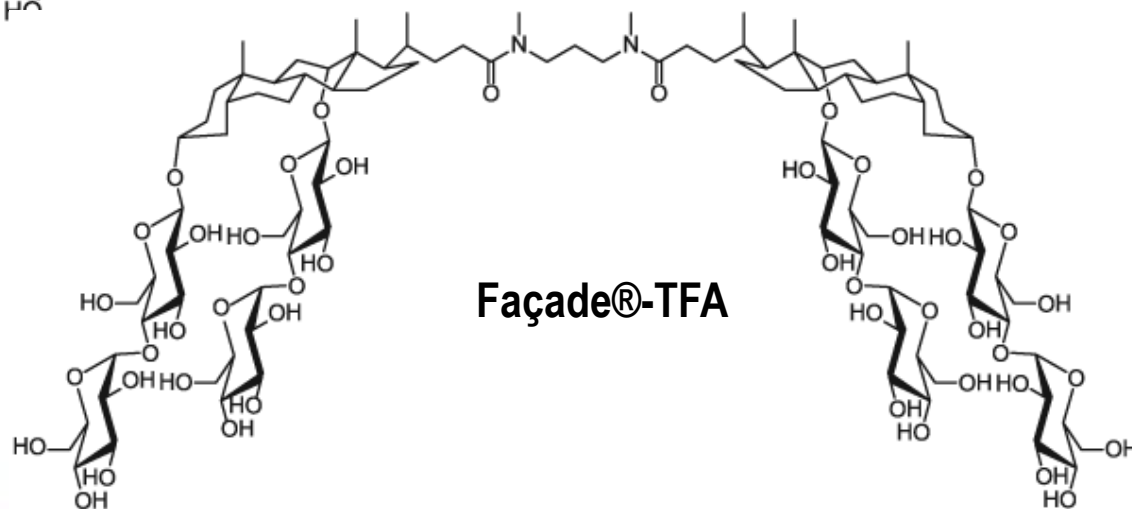


Also in stock:

Façade®-TEG

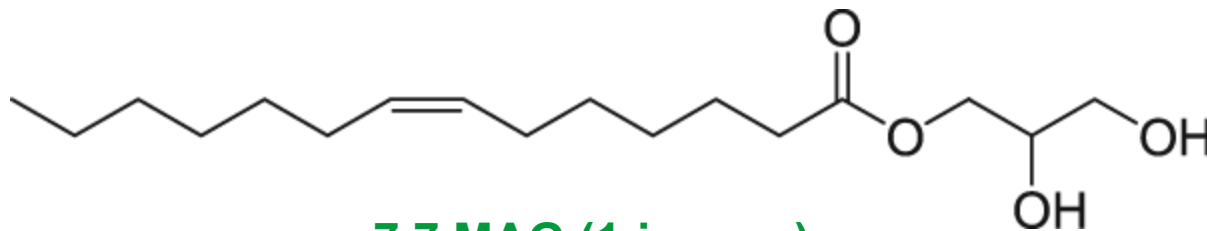
Façade®-EPC

Façade®-TEM



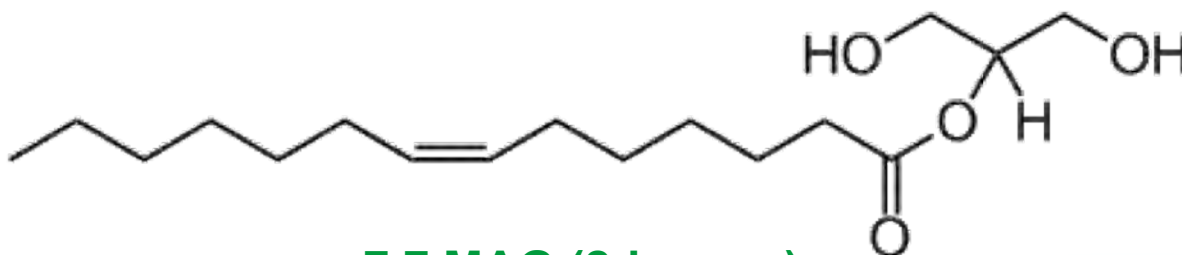
Cracking the Kobilka Conundrum

Solutions for Research



7.7 MAG (1-isomer)

Purity: 99%, may contain up to 10% of the 2-isomer

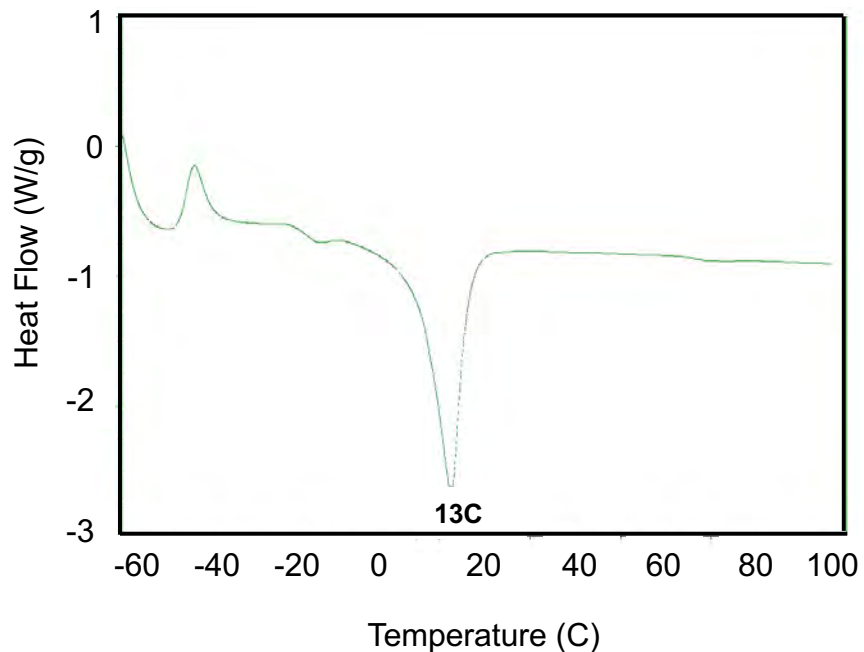


7.7 MAG (2-isomer)

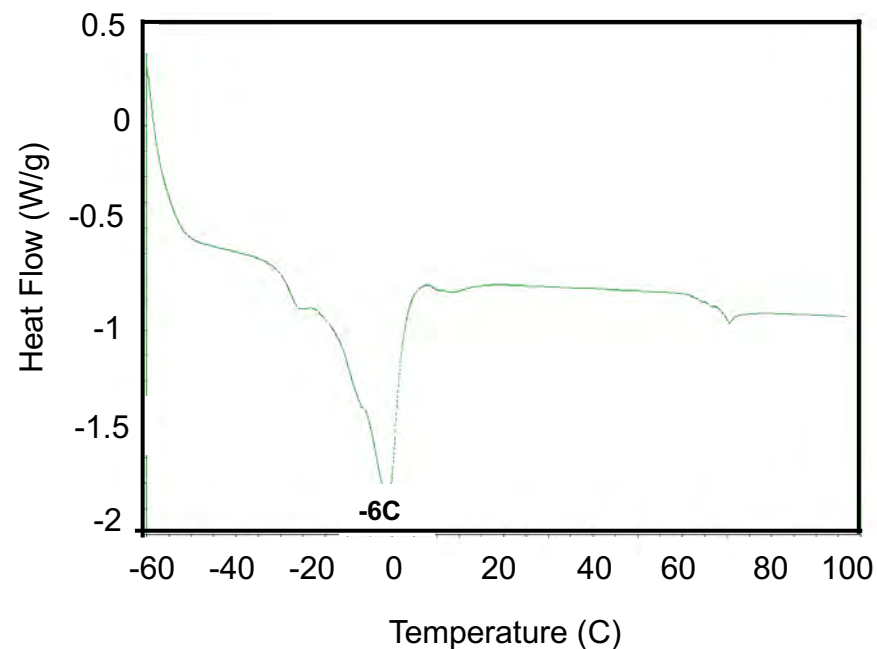
Cracking the Kobilka Conundrum

Solutions for Research

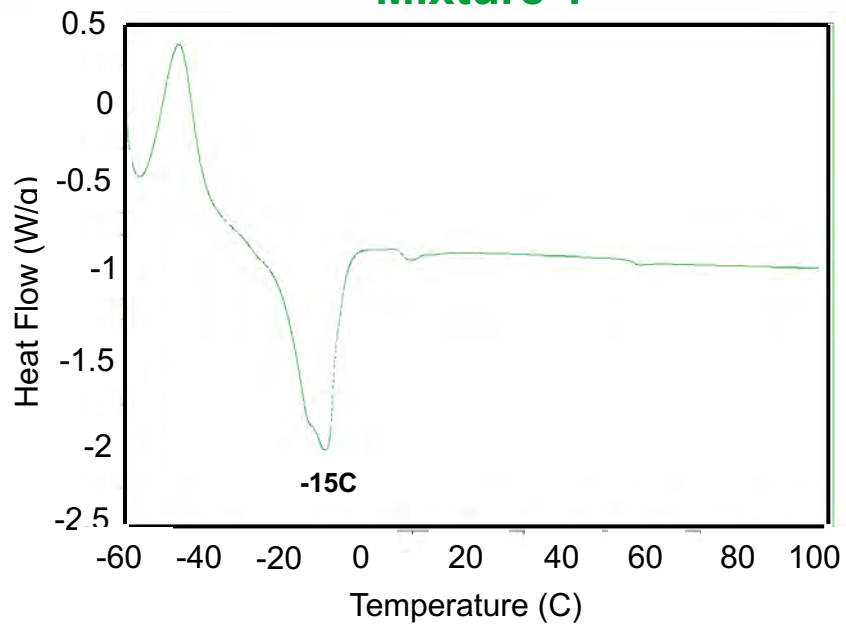
7.7 MAG (1-isomer)



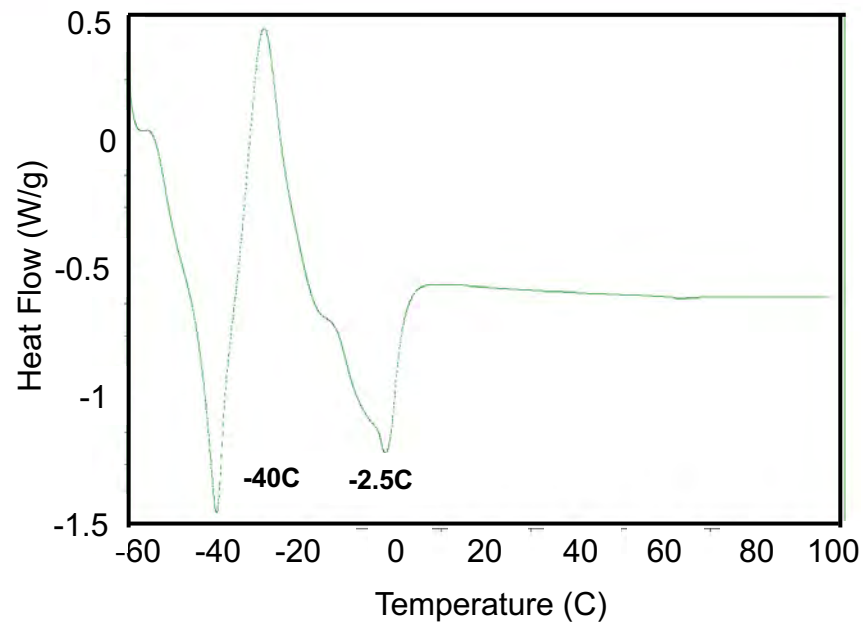
7.7 MAG (2-isomer)



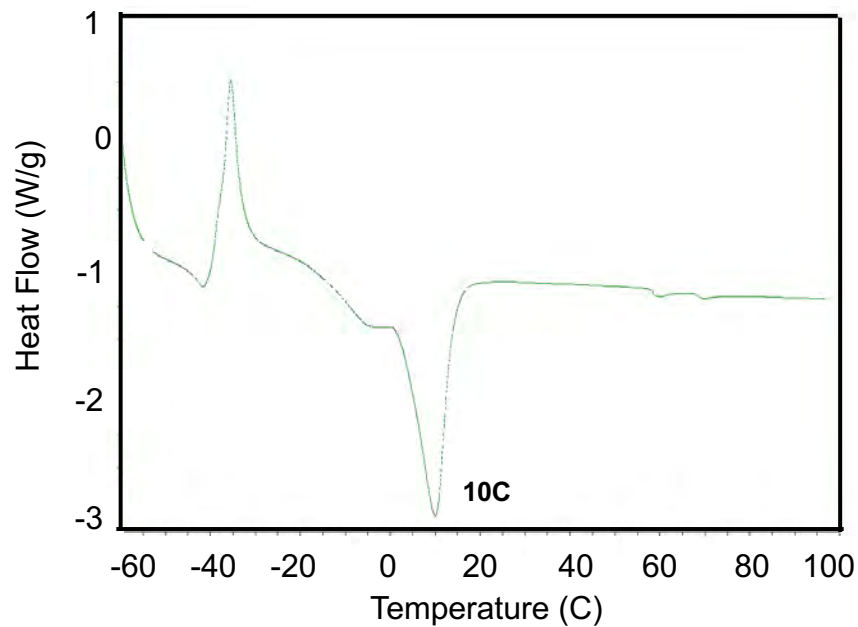
Mixture 1



Mixture 2



Mixture 3



Analytical Services Division

Lipid Analysts Guarantee that
Avanti Quality Prevails at Each Step

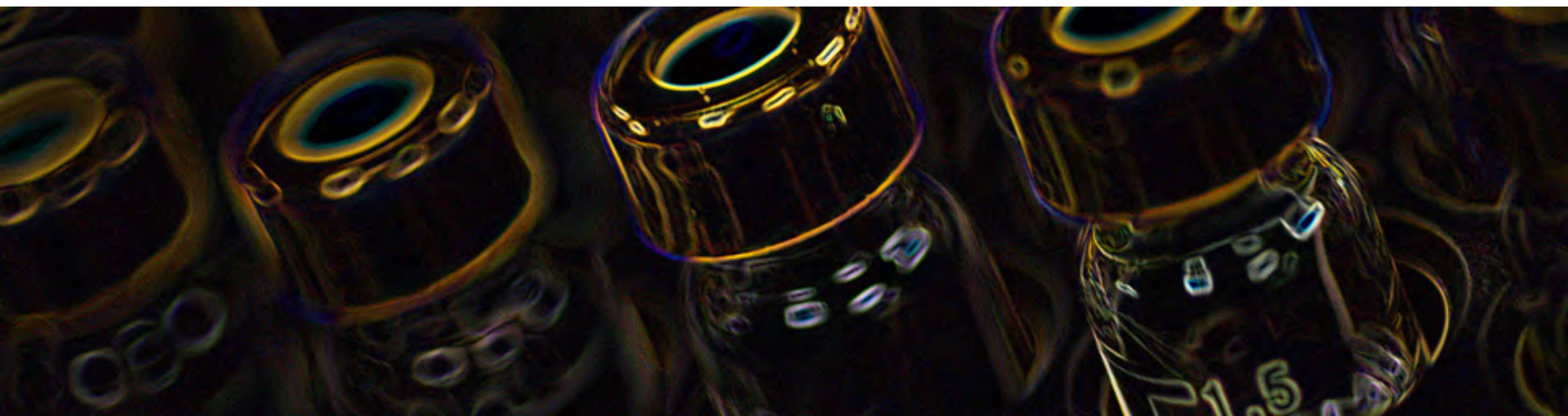
16 SCIENTISTS WITH +175 YEARS OF ANALYTICAL LABORATORY EXPERIENCE

● Method Design, Development, Validation,
and Qualification

● Analytical Consulting

Available Analytical Testing Services

NMR, LC-MS/MS, GC-MS, GC-FID, ICP-MS, Ion Chromatography, HPLC-ELSD, HPLC-UV, Karl Fischer Titration, POV, FTIR, and more



Moral of the Story

People do

amazing



things with our lipids (and polymers and detergents)!

What will **you** do?

Avanti is **More than**
(Phospho) **Lipids**

Our full range of services includes production of unique research products, custom services, analytical services, and much more!

Let Avanti Revolutionize Your Science!