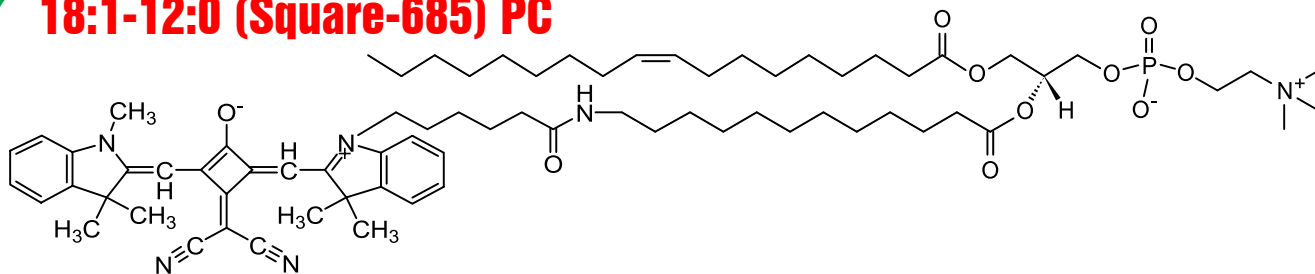
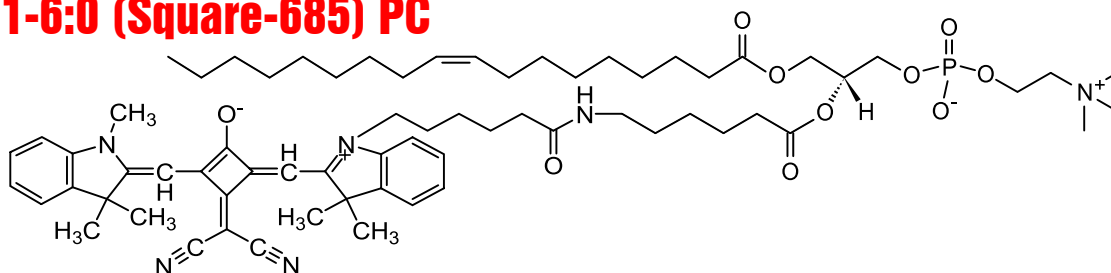


Avanti's New Long Wavelength Lipid Probes

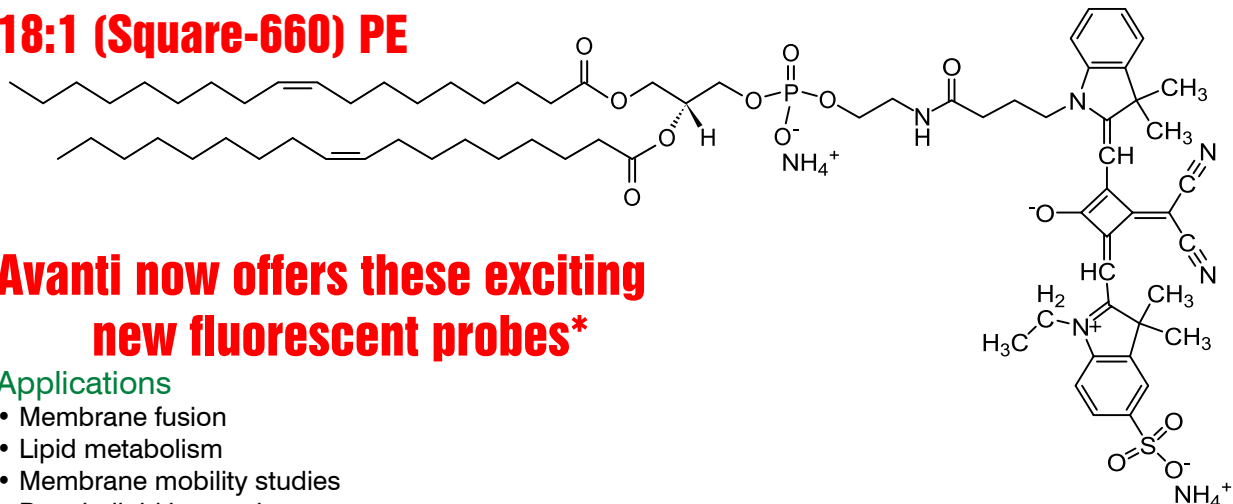
18:1-12:0 (Square-685) PC



18:1-6:0 (Square-685) PC



18:1 (Square-660) PE



Avanti now offers these exciting new fluorescent probes*

Applications

- Membrane fusion
- Lipid metabolism
- Membrane mobility studies
- Protein-lipid interactions
- Protein-mediated lipid transfer between vesicles
- Transbilayer distribution of fluorescent lipid analogs

Advantages

- Perfectly suited for excitation with the 670-nm diode laser
- Highly sensitive; large extinction coefficients ($\sim 200,000 \text{ M}^{-1}\text{cm}^{-1}$) and high quantum yields
- pH-insensitive over a broad pH range
- Higher photostability as compared to Fluorescein or Cy5™

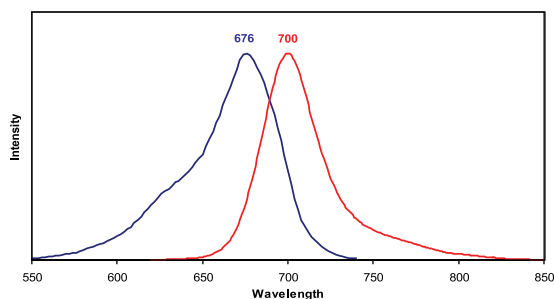
*The fluorescent dyes attached to the above lipids are a product of SETA BioMedicals, LLC and are protected by U.S. Patent No. 6,538,129 & Pending Applications.

Avanti manufactures and distributes these fluorescent lipid probes under an exclusive license.

continued overleaf

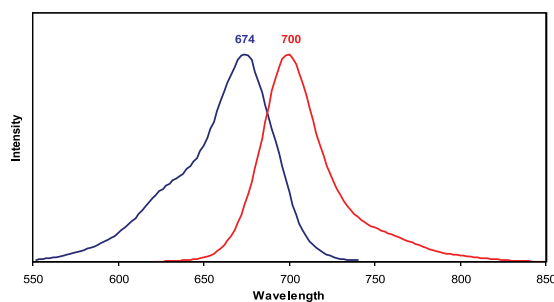
Avanti's New Long Wavelength Lipid Probes

Product	Avanti Number	Molecular Weight	Laser Excitation	Solvent	Absorption max. (nm)	Extinction Coefficient [$M^{-1}cm^{-1}$]	Fluorescence max. [nm]
18:1-12:0 (Square-685) PC	810941	1273.665	670	$CHCl_3$	676	208,000	700
18:1-6:0 (Square-685) PC	810940	1189.506	670	$CHCl_3$	674	208,000	700
18:1 (Square-660) PE	810960	1398.812	670	$CHCl_3:MeOH$ 1:2	672	182,000	700



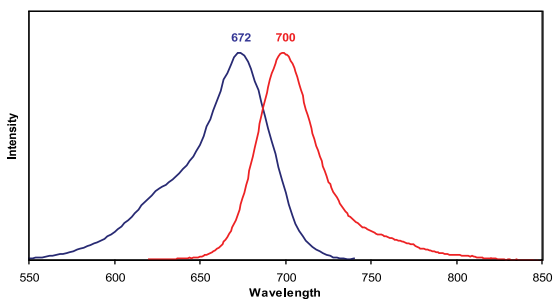
18:1-12:0 (Square-685) PC

Avanti Number 810941



18:1-6:0 (Square-685) PC

Avanti Number 810940

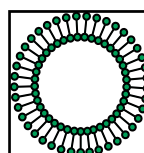


18:1 (Square-660) PE

Avanti Number 810960

For more information about these probes click [here](#)

SETA BioMedicals



Avanti[®]
POLAR LIPIDS, INC.

LIPID MAPS Mass Spectrometry Internal Standards

Ceramides, Sphingoid bases (& 1-phosphates) and simple Phospho- & Glyco-sphingolipids

A total of 10 sphingolipids were formulated together in ethanol to deliver 50 nmoles of each in 20 μ l added to cell extraction samples as in Merrill *et al.* (2005).

Under the appropriate extraction and mass spectrometry conditions, the uncommon chain lengths of these internal standards allow them to be used for quantitative analysis of sphingolipids in diverse biological materials.



Phosphatidylinositolphosphates (PIP's)

Now available for the first time – the complete set of seven non-natural PIP's containing polyunsaturated fatty acids. These seven unique PIP's will serve as MS internal standards for each of the polyphosphorylated phosphatidylinositol derivatives found in cells.

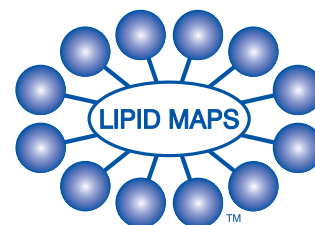
Glycerophospholipids

Twenty four novel odd-carbon glycerophospholipid species have been formulated in conjuncture with the Lipid Maps Project for use as LC/MS internal standards. To bracket the entire range of biologically relevant phospholipids, four lipids per diradyl class (ranging from small saturated to large polyunsaturated species) were prepared. Odd-carbon standards were chosen for this project due to the fact that they do not occur naturally in most mammalian systems. Due to varying ionization efficiencies across a lipid class, multiple standards within a class with varying degrees of unsaturation and carbon chain length are required for the production of standard curves for all possible biologically relevant species.

Standards from five diradyl and two lyso lipid classes have been incorporated into Lipid Maps LC/MS protocols for normalization and quantitation of data.

As an aid to the lipid community, fully annotated MS/MS fragmentation data for all of the standards is now available on the Lipid MAPS public website.

For more
information
about
MS Standards



Sterol Standards also available

www.lipidmaps.org

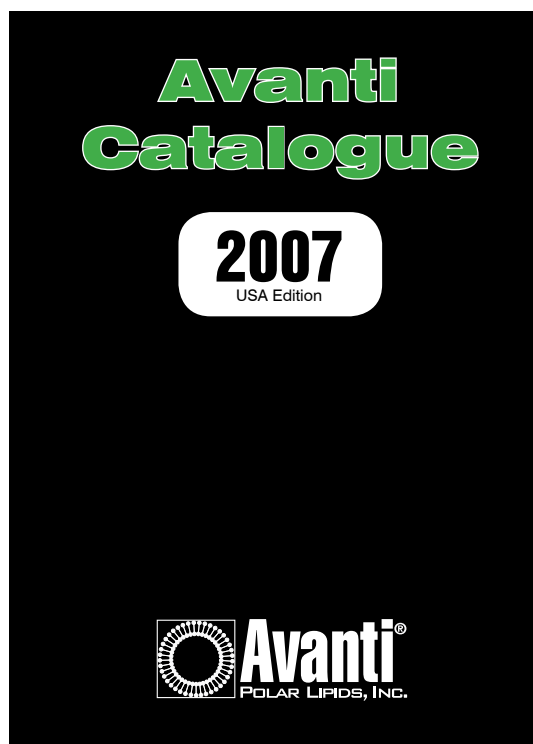
New Products

As always the Avanti scientists have been hard at work developing many exciting new lipids.

For the latest list

Spam Filter

To ensure that future Emails from Avanti aren't blocked by antispam software, be sure to add newsletter@avantilipids.com to your list of 'allowed senders and contacts'.



Have you received your new Catalogue?

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Click to download a Catalogue

Avanti Road Show

• FASEB – Lysophospholipid Mediators in Health & Disease
June 9-14
Tucson, AZ

• XX1st Congress of the International Society on Thrombosis and Haemostasis
July 6-12
Geneva, Switzerland



