

Echelon Biosciences Inc.

Membrane Lipid Strips™

P-6002

Description

Membrane Lipid Strips™ are 2 cm x 6 cm hydrophobic membranes that have been spotted with 15 different lipids at 100 pmol per spot. These membranes can be used to determine lipid-protein interactions, through a simple protein-lipid overlay experiment. This allows researchers a convenient way to determine if their protein of interest interacts with one or more of the bound lipids.

Storage

Store at 2-8 °C. Product is moisture and light sensitive

Format

The membrane has a diagonal cut on its top left corner and is spotted with Xylene Cyanol FF* (blue) in the bottom right blank spot to assist in orientation of the strip. Ponceau S staining (pink) was added to the lipid spots. Some space is provided at the bottom of each strip for additional control proteins or antibodies to be spotted by the customer. See template below for location of lipids. All of the lipids are long chain ($\geq C14$) highly pure natural or synthetic analogs. For more information, on the lipids spotted on the membrane, please visit our website and search the catalog numbers provided in the figure below.

*Xylene Cyanol FF shows fluorescence around 615 nm and may be visible when using fluorescence based imaging such as Licor.

Membrane Template

Glycerol tripalmitate or Triglyceride (GT)	<input type="radio"/>	<input type="radio"/>	Phosphatidylinositol (PI cat # P-0016)
Diacylglycerol (DAG, cat # L-0016)	<input type="radio"/>	<input type="radio"/>	PtdIns(4)P (cat # P-4016)
Phosphatidic Acid (PA, cat # L-4116)	<input type="radio"/>	<input type="radio"/>	PtdIns(4,5)P2 (cat # P-4516)
Phosphatidylserine (PS, cat # L-3116)	<input type="radio"/>	<input type="radio"/>	PtdIns(3,4,5)P3 (cat # P-3916)
Phosphatidylethanolamine (PE, cat # L-2116)	<input type="radio"/>	<input type="radio"/>	Cholesterol (cat # L-6012)
Phosphatidylcholine (PC, cat # L-1116)	<input type="radio"/>	<input type="radio"/>	Sphingomyelin (SM)
Phosphatidylglycerol (PG, cat # L-5116)	<input type="radio"/>	<input type="radio"/>	Sulfatides
Cardiolipin (CL)	<input type="radio"/>	<input checked="" type="radio"/>	Blue Blank

Suggested Use

Visit our website www.echelon-inc.com. At the bottom of each product's webpage is our general Protocol "Protocol_Strip_Array" for use with product numbers: P-6001, P-6100, P-6002, P-6003, P-6111, S-6000, and S-6001. Also please refer to our FAQ "Frequently Asked Questions" document.

References

1. Dowler S, Currie RA, Downes PC, Alessi DR. DAPP1: a dual adaptor for phosphotyrosine and 3-phosphoinositides. *Biochemical Society J.* 342, 7-12 (1999)
2. Dowler, S., Kular, G., and Alessi, R.D., Protein lipid overlay assay, *Sci STKE*, 2002. April 23; 2002 (129). p16.
3. Park D, Tosello-Tramont AC, Elliott MR, Lu M, Haney LB, Ma Z, Klibanov AL, Mandell JW, Ravichandran KS. BAI1 is an engulfment receptor for apoptotic cells upstream of the ELMO/Dock180/Rac module. *Nature.* 2007 Nov 15.
4. Palomares-Jerez MF, Nemesio H, Franquelim HG, Castanho MA, Villalain J. N-Terminal AH2 segment of protein NS4B from hepatitis C virus. Binding to and interaction with model biomembranes. *Biochem Biophys.* 2013 April 29.

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