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Technical Data Sheet

For research use only

Not intended or approved for
diagnostic or therapeutic use.

PIP Strips™

Product Number: P-6001

Product Description:

PIP Strips™ are 2 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 corner to assist in orientation of the strip. Ponceau S staining (pink) was added to the lipid spots. See template below for location of lipids. All of the lipids are long chain (> diC16) highly pure 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.

Membrane Template:

Lysophosphatidic Acid (LPA, cat # L-0200)	<input type="radio"/>	<input type="radio"/>	Sphingosine-1-phosphate (S1P, cat # S-2000)
Lysophosphocholine (LPC, cat # L-1518)	<input type="radio"/>	<input type="radio"/>	PtdIns(3,4)P ₂ (cat # P-3416)
PtdIns (cat # P-0016)	<input type="radio"/>	<input type="radio"/>	PtdIns(3,5)P ₂ (cat # P-3516)
PtdIns(3)P (cat # P-3016)	<input type="radio"/>	<input type="radio"/>	PtdIns(4,5)P ₂ (cat # P-4516)
PtdIns(4)P (cat # P-4016)	<input type="radio"/>	<input type="radio"/>	PtdIns(3,4,5)P ₃ (cat # P-3916)
PtdIns(5)P (cat # P-5016)	<input type="radio"/>	<input type="radio"/>	Phosphatidic Acid (PA, cat # L-4116)
Phosphatidylethanolamine (PE, cat # L-2116)	<input type="radio"/>	<input type="radio"/>	Phosphatidylserine (PS, cat # L-3116)
Phosphatidylcholine (PC, cat # L-1116)	<input type="radio"/>	<input checked="" type="radio"/>	Blue Blank

*Final concentration of 0.1% (v/v) Ponceau S was added for accuracy during spotting.

Suggested Usage:

Visit our website www.echelon-inc.com. At the bottom of the each product's webpage is our general Protocol "Protocol_Strip_Array" for use with product numbers: P-6001, P-6100, P-6002, P-6003, 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. Ferguson CG, James RD, Bigman CS, Shepard DA, Abdiche Y, Katsamba PS, Myszkowski DG, Prestwich GD. Phosphoinositide-containing polymerized liposomes: stable membrane-mimetic vesicles for protein-lipid binding analysis. *Bioconjug Chem.* 2005 Nov - Dec; 16(6): 1475-83.
4. Busse RA, ScaciocA, Hernandez JM, Krick R, Stephan M, Janshoff A, Thumm M, Kuhnel K. Qualitative and quantitative characterization of protein-phosphoinositide interactions with liposome-based methods. *Autophagy.* 2013 May 1;9(5):770-7.

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