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Technical Data Sheet

For research use only

Not intended or approved for
diagnostic or therapeutic use.

Product Name: PIP Strips™

Product Number: P-6001

General Description: PIP Strips™ are 2 x 6 cm hydrophobic membranes that have been spotted with 15 different biologically active lipids at 100 pmol per spot. These membranes can be used to determine lipid-protein interactions, through a simple lipid-protein 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 Ponceau S* staining to assist in orientation of the strip. See template below for location of lipids.

Membrane Template:

Lysophosphatidic Acid (LPA)	○	○	Sphingosine-1-phosphate (S1P)
Lysophosphocholine (LPC)	○	○	PtdIns(3,4)P ₂
PtdIns	○	○	PtdIns(3,5)P ₂
PtdIns(3)P	○	○	PtdIns(4,5)P ₂
PtdIns(4)P	○	○	PtdIns(3,4,5)P ₃
PtdIns(5)P	○	○	Phosphatidic Acid (PA)
Phosphatidylethanolamine (PE)	○	○	Phosphatidylserine (PS)
Phosphatidylcholine (PC)	○	○	Blank

Suggested Usage: See support protocol “basic Protocol for PIP strips™, PIP Array™, PIP Microstrips™, and SpingoStrips™” on our website www.echelon-inc.com

- References:**
1. Dowler, S., Currie, R.A., Downes, P.C., and Alessi, D.R. DAPPI: a dual adaptor for phosphotyrosine and 3-phosphoinositides *Biochemical Society.J.* **342**, 7-12 (1999).
Dowler, S., Kular, G., and Alessi, R.D., Protein lipid overlay assay, *Sci STKE*, 2002, L6. (2002).
 2. Maria Fardi, Alexes Daquinag, Shimei Wang, Tao Xue, and Jeannette Kunz. The Pleckstin Homology Domain Proteins Slm1 and Slm2 are required for Actin Cytoskeleton Organization in Yeast and Bind Phosphatidylinositol-4,5-Bisphosphate and TORC2. *Mol. Biol. Cell*, Apr 2005; **16**: 1883-1900.
 3. Guillaume Bompard, Marianne Martin, Christian Roy, Francoise Vignon, and Gilles Freiss. Membrane targeting of protein tyrosine phosphatase PTPL1 through its FERM domain via binding to phosphatidylinositol-4,5-bisphosphate. *J. Cell Sci.*, Jun 2003; **116**: 2519.

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

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