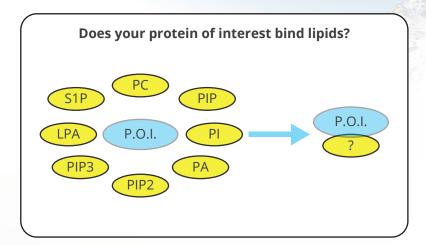
Echelon Biosciences

Lipid-Protein Interaction Tools



Lipids are fundamental to cell biology, both as the building blocks for biological membranes and as intracellular signaling molecules. A less appreciated, but equally important feature of lipids is their ability to bind and influence the structure and function of proteins. While these interactions are critical, studying them can be challenging.

Echelon Biosciences has developed a suite of lipid-protein interaction tools that lower the barriers for interrogating lipid-protein binding partners.

Lipid Strips

PIP Strips (Cat # P-6001) are 2 x 6 cm hydrophobic membranes that have been spotted with 100 pmol of all eight phosphoinositides and seven other biologically important lipids. These strips can be used to determine if a protein of interest interacts with one or more of these lipids in a simple protein-lipid overlay assay.

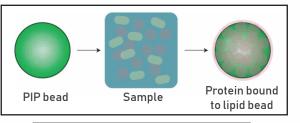
Also available:

PIP Array (P-6100), Membrane Lipid Strips (P-6002), Membrane Lipid Array (P-6003), Sphingo Strips (S-6000), Sphingo Array (S-6001), Custom PIP Array - contact us

Lipid Beads

Lipid Beads are ideal for use in protein pull-down experiments to identify and characterize lipid binding proteins. The beads allow lipid binding proteins to be isolated from cell lysates or mixtures of in vitro translated peptides, which can then be analysed by SDS-PAGE, Western blot, or mass spectrometry. See the table for available Lipid Beads.

Visit **echelon-inc.com** for more Lipid Beads. Contact us for **custom** bead conjuations.



Lipid Coated Beads from Echelon					
Lipid	Cat #	Lipid	Cat #		
Control	P-B000	PI(3,5)P2	P-B035a		
PtdIns	P-B001	PI(4,5)P2	P-B045a		
PI(3)P	P-B003a	PI(3,4,5)P3	P-B345a		
PI(4)P	P-B004a	PA	P-B0PA		
PI(5)P	P-B005a	PC	P-B0PC		
PI(3,4)P2	P-B034a	PS	P-B0PS		

PIP Strips™ (Cat # P-6001)

	Ŭ	0	
Lysophosphocholine	0	0	PtdIns(3,4)P2
PtdIns	0	0	PtdIns(3,5)P2
PtdIns(3)P	0	0	PtdIns(4,5)P2
PtdIns(4)P	0	0	PtdIns(3,4,5)P3
PtdIns(5)P	0	0	Phosphatidic Acid
Phosphatidylethanolamine	0	0	Phosphatidylserine
Phosphatidylcholine	0		Blue Blank

Lysophosphatidic Acid O O Sphingosine-1-phosphate

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PolyPIPosomes

PolyPIPosomes are polymerized liposomes composed of specific phosphoinositides that show markedly increased stability (up to 6 months) vs. conventional liposomes. PolyPIPosomes are ready-to-use suspensions with a uniform size of ~200 nm that are ideal for numerous assays, including:

size of ~200 nm that are ideal for numerous assays, including: protein pull-down, Surface Plasmon Resonance, liposome overlay assay.

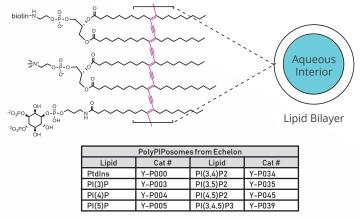
Contact us for **custom** PolyPIPosome formulations.

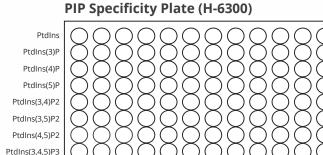
Lipid Plates

Lipid Plates are designed for screening lipid-protein interactions. The **PIP Screening Plate** (H-6200) is customizable for a single phosphoinositide and is useful for screening multiple proteins. The **PIP Specificity Plate** (H-6300) contains all eight phosphoinositides and can be used to quantitatively assess specific PIP-protein interactions.

Contact us for a **custom** plate with your lipid(s) of interest.

Control Proteins					
Products	Catalog Number				
PIP Antibodies					
Purified Anti-PtdIns(3)P IgM	Z-P003				
Purified Anti-PtdIns(4)P IgM	Z-P004				
Purified Anti-PtdIns(3,4)P2 IgM	Z-P034				
Purified Anti-PtdIns(4,5)P2 lgM	Z-P045				
Purified Anti-PtdIns(3,4,5)P3 IgG	Z-P345b				
PIP Binding Proteins					
PI(3)P Grip	G-0302				
PI(4)P Grip	G-0402				
PI(4,5)P2 Grip	G-4501				
PI(3,4,5)P ₃ Grip	G-3901				
MultiPIP Grip	G-9901				





Other products that may interest you

-	-	-		
Products	Catal	Catalog Number		
PIP Mass Assays				
PIP3 Mass ELISA	K-	K-2500s		
PI(3)P, Mass ELISA	K-	K-3300		
PI(4)P Mass ELISA	K-	K-4000E		
PI(3,4)P2 Mass ELISA	K-	K-3800		
PI(4,5)P2 Mass ELISA	K-	K-4500		
Enzymes and Activity Assays				
PI3-Kinases, WT or Mutant	E-:	E-2000, P28-10H		
SHIP2 Enzyme	E-1	E-1000		
PTEN Enzyme	E-:	E-3000		
Phosphatase Activity FP Kit	K-	K-1400		
PTEN Activity Kit	K-	K-4700		
PI3-Kinase Activity ELISA	K-	K-1000s		



