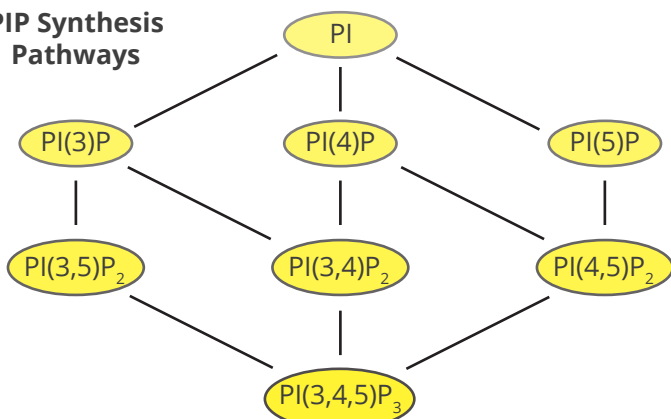


PIP Synthesis Pathways



Phosphatidylinositol phosphates (PIPs) are more than just membrane components. They are vital signaling molecules within the cell that participate in a variety of biological processes ranging from membrane trafficking, inflammation, and cell death. Additionally, PIP signaling has also emerged as an important target in cancer therapy, hence there is a need to better understand the involvement of PIPs in cellular processes.

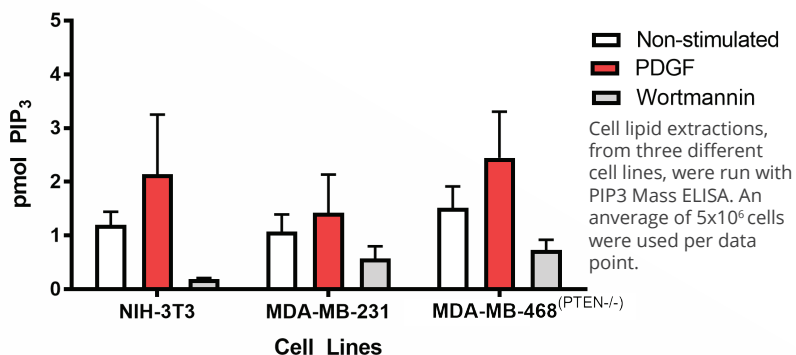
Echelon Biosciences' **PIP Mass Assays** offer researchers a comprehensive selection of ELISA based assays for the measurement of PIP levels from biological samples.

PIP3 Mass Assay

Cat # K-2500s

The production of PIP3 via PI3-K is important in multiple cell signaling pathways. Typical experiments to measure this activity involve the use of radioactive labeling followed by chromatography. The assay plate method developed by **Echelon Biosciences** allows the user to determine PI3-K activity by measuring the amount of PIP3 extracted from cells by means of standard ELISA format, eliminating the need for radioactivity, and thin layer chromatography.

PDGF increases PI(3,4,5)P₃ in cells

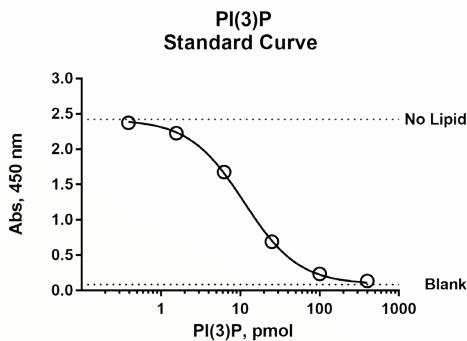


PIP Mass Assays - General Features

- Competitive assay format
- Sensitive to 1 pmol of lipid
- No metabolic labeling required
- Adaptable to multiple cell types
- Built in standards for quantification
- Analyze 24-32 samples in triplicate or duplicate
- Assay times are <4-5 hrs
- Read assay signals at 450 nm

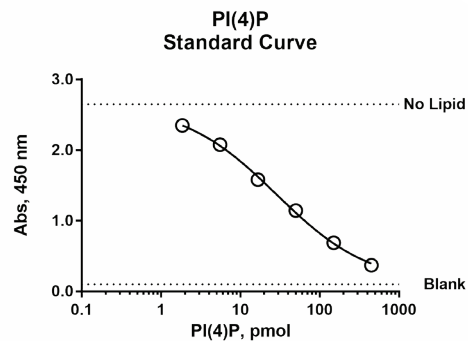
PI(3)P Mass Assay

Cat # K-3300



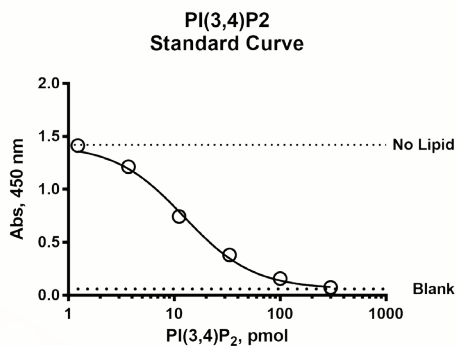
PI(4)P Mass Assay

Cat # K-4000E



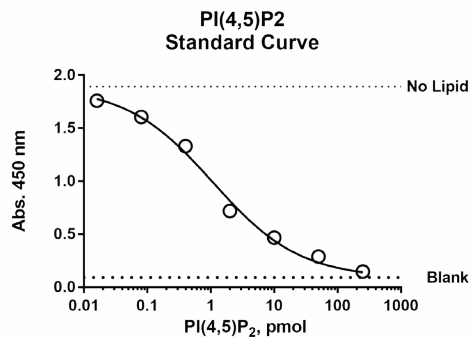
PI(3,4)P2 Mass Assay

Cat # K-3800



PI(4,5)P2 Mass Assay

Cat # K-4500



Products	Catalog Number
Enzymes and Lipids	
PI3-Kinases, WT or Mutant	E-2000, P28-10H
SHIP2 Enzyme	E-1000
PTEN Enzyme	E-3000
PI(4,5)P2	P-4508, P-4516
PI(3,4,5)P3	P-3908, P-3916
Inhibitors	
K118 (SHIP1 Inhibitor)	B-0344
K149 (SHIP2 Inhibitor)	B-0345
SF1670 (PTEN Inhibitor)	B-0350
VO-0Hpic (PTEN Inhibitor)	B-0351
ZSTK474 (PI3K Inhibitor)	B-0307

Products	Catalog Number
Activity Assay Kits	
PI3-Kinase Activity ELISA	K-1000s
Class III PI3-Kinase ELISA	K-3000
PTEN Activity ELISA	K-4700
PI(4)P 5-Kinase Activity Assay	K-5700
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, Z-P034b
Purified Anti-PtdIns(3,5)P2 IgG	Z-P035
Purified Anti-PtdIns(4,5)P2 IgM	Z-P045
Purified Anti-PtdIns(3,4,5)P3	Z-P345, Z-P345b

