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Technical Data Sheet

For research use only
Not intended or approved for diagnostic or therapeutic use.

Product Name:
Shuttle PIP™ Kits
Intracellular delivery of phosphoinositides

Product Number: P-9005

Kit Contents:
Phosphoinositides

Catalog #	Description	Molecular Weight	Quantity
P-5016	PtdIns(5)P diC_{16}	956.96	100 μg
C-05F16	*BODIPY® FL-PtdIns(5)P,C_{16}	1,372.88	25 μg

Carriers

P-9C3	Carrier 3	1,551	3 x 50 nmoles

Storage and Handling:
Certain kit components are moisture and light sensitive. Store unopened kit for up to one year frozen at -20°C protected from moisture and light. Reconstitute phosphoinositides and carriers in aqueous buffers or media, and store at 4°C for up to 3 months. Multiple freeze thawing is not recommended. Note: Vortex mixing, brief bath sonication, and addition of small amounts of methanol, ethanol, or DMSO may facilitate complete dissolution of phosphoinositides. *Phosphate buffers are not recommended and may alter complex formation between carriers and phosphoinositides.* We do not recommend storing carriers and PIPs together as complexes.
Carriers are shipped lyophilized and are hygroscopic, so avoid moisture. Reconstitute carriers with water or buffered aqueous solutions, then store at 4°C for up to 3 months. Multiple freezing and thawing is not recommended.

References:
1. Ozaki, S.; DeWald, D. B.; Shope, J. C.; Chen, J.; Prestwich, G. D. (2000) Intracellular delivery of phosphoinositides and inositol phosphates using polyamine carriers. *Proc Natl Acad Sci* U S A **97**(21)11286-11291.
2. Scheid, M.P., M. Huber, et. al. (2002). Phosphatidylinositol (3,4,5)P_3 is essential but not sufficient for protein kinase B (PKB) activation; Phosphatidylinositol (3,4)P_2 is required for PKB phosphorylation at Ser-473: studies using cells from SH2-containing inositol-5-phosphatase knockout mice. *J Biol Chem* **277**(11): 9027-35.
3. Weiner, O.D., Neilsen, P.O., Prestwich, G.D., Kirschner, M.W., Cantley, L.C. and Bourne, H.R. (2002). A PtdInsP3- and Rho GTPase-mediated positive feedback loop regulates neutrophil polarity. *Nat Cell Biol* **4** 509-512.

* **BODIPY® FL** has maximal excitation at 505 nm and maximal emission at 513 nm