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## **Technical Data Sheet**

For research use only Not intended or approved for

diagnostic or therapeutic use.

Product Name: Shuttle PIP™ Carrier

Intracellular delivery of phosphoinositides

Product Number: P-9C3

**Contents:** 

<u>Catalog #</u> <u>Description</u> <u>Molecular Weight</u> <u>Quantity</u> P-9C3 Unlabeled Carrier 3 1551.0 2 X 50 nmoles

Storage:

Carrier 3 is lyophilized. Protect from moisture and store at 20 °C until reconstituted. Reconstitute with water or other aqueous solutions and store at 4°C after reconstituting for up to 3 months. Multiple freeze thawing is not recommended. Note: phosphate buffers are not recommended and may alter complex formation with phosphoinositides. We do not recommend storing carriers and PIPs together as complexes.

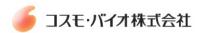
Use:

Carriers are used to deliver phosphoinositide polyphosphates into living cells. This carrier has successfully delivered the following phosphoinositides into cells: PtdIns(3)P, PtdIns,(4)P, and PtdIns(5)P, and their fluorescent derivatives.

References:

- 1. Ozaki, S., DeWald, D.B., Shope, J.C., Chen, J., Prestwich, G.D. Intracellular delivery of phosphoinositides and inositol phosphates using polyamine carriers. *Proc Natl Acad Sci U S A* **97**, 11286-91 (2000).
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- 3. Maffucci, T., Brancaccio, A., Piccolo, E., Stein, R.C., Falasca, M. Insulin induces phosphatidylinositol-3-phosphate formation through TC10 activation. *Embo J* **22**, 4178-89 (2003).

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- 4. Larsen, M., Hoffman, M.P., Sakai, T., Neibaur, J.C., Mitchell, J.M., Yamada, K.M. Role of PI 3-kinase and PIP3 in submandibular gland branching morphogenesis. *Dev Biol* **255**, 178-91 (2003).
- 5. Weiner, O.D., Neilsen, P.O., Prestwich, G.D., Kirschner, M.W., Cantley, L.C., Bourne, H.R. A PtdInsP(3)- and Rho GTPase-mediated positive feedback loop regulates neutrophil polarity. *Nat Cell Biol* **4**, 509-13 (2002).