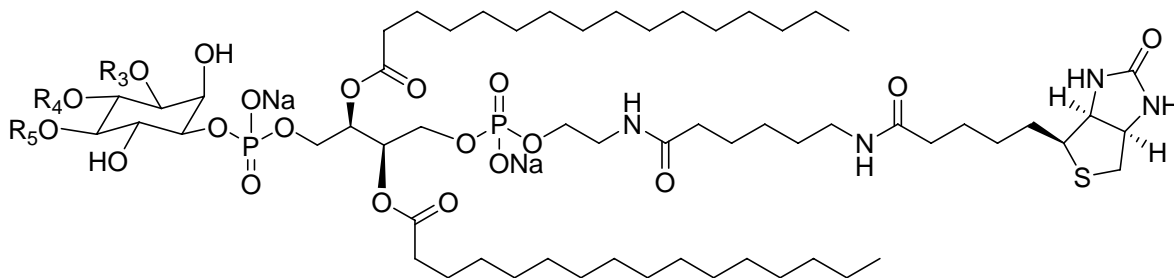


Product Name: Biotin Hybrid-Phosphoinositides



Product	R ₃	R ₄	R ₅	Chemical Formula	MW (g/mol)
H-00BT	H	H	H	C ₆₀ H ₁₁₀ N ₄ Na ₂ O ₂₀ P ₂ S	1347.5
H-03BT	PO ₃ Na ₂	H	H	C ₆₀ H ₁₀₉ N ₄ Na ₄ O ₂₃ P ₃ S	1471.5
H-34BT	PO ₃ Na ₂	PO ₃ Na ₂	H	C ₆₀ H ₁₀₈ N ₄ Na ₆ O ₂₆ P ₄ S	1595.4
H-45BT	H	PO ₃ Na ₂	PO ₃ Na ₂	C ₆₀ H ₁₀₈ N ₄ Na ₆ O ₂₆ P ₄ S	1595.4
H-39BT	PO ₃ Na ₂	PO ₃ Na ₂	PO ₃ Na ₂	C ₆₀ H ₁₀₇ N ₄ Na ₈ O ₂₉ P ₅ S	1719.4

Storage: Hybrid Phosphatidylinositol polyphosphates (PtdInsP_ns) and analogs are stable for at least one year when stored as a solid, protected from moisture, at -20 °C. Hybrid PtdInsP_ns should be stored in glass containers or low-binding polypropylene tubes to prevent material loss due to absorption to the vessel surface. Storage in basic solutions (pH > 9) will result in slow hydrolysis of the ester chains, and may cause phosphate or acyl migration to occur. Storage in acidic buffers (pH < 4) may cause decomposition or phosphate migration. After reconstitution, solutions of PtdInsP_ns should be flash frozen in liquid nitrogen and stored at -20 °C between uses. PtdInsP_ns are stable for at least three months when handled in this way. Repeated freeze/thaw cycles do not affect PtdInsP_ns. Do not store reconstituted PtdInsP_ns, at 4 °C for more than 2-3 days.

Reconstitution: Reconstitute with water or neutral pH, buffered salt solutions, i.e. PBS, TBS, etc. Hybrid PtdInsP_ns have very limited solubility in CHCl₃-MeOH and other organic solvents, and are not recommended for preparing phospholipid liposomes.

Suggested Use: Phosphoinositides and synthetic analogs are employed as substrates for kinases, phosphatases, and binding proteins as described in many publications. Other *in vitro* and cellular applications are possible, but have not been verified by Echelon Biosciences. Please check our web site, www.echelon-inc.com, for updated technical or product application information; or call our customer service department at 1-866-588-0455.

References: P.W. Rzepecki and G.D. Prestwich (2002) Synthesis of hybrid lipid probes: derivatives of phosphatidylethanolamine-extended phosphatidylinositol 4,5-bisphosphate (Pea-PIP₂). *J Org. Chem*, **67**, 5454.

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