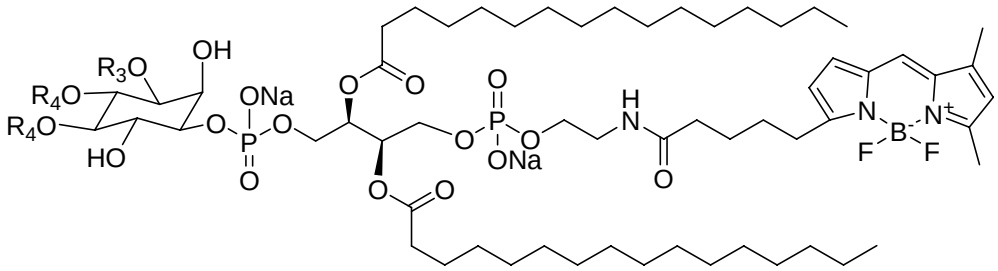
Echelon Biosciences Inc.
675 Arapeen Drive, Suite 302
Salt Lake City, UT 84108 Telephone
866-588-0455
Fax 801-588-0497
echelon@echelon-inc.com
www.echelon-inc.com

Technical Data Sheet

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

Product Name: Bodipy-FL Hybrid-Phosphoinositides



Product	R_3	R_4	R_5	Chemical Formula	MW (g/mol)
H-34FL	PO_3Na_2	PO_3Na_2	H	$C_{60}H_{100}BF_2N_3Na_6O_{24}P_4$	1558.1
H-45FL	H	PO_3Na_2	PO_3Na_2	$C_{60}H_{100}BF_2N_3Na_6O_{24}P_4$	1558.1
H-39FL	PO_3Na_2	PO_3Na_2	PO_3Na_2	$C_{60}H_{99}BF_2N_3Na_8O_{27}P_5$	1682.0

Storage:

Hybrid Phosphatidylinositol polyphosphates ($PtdInsP_n$s) and analogs are stable for at least one year when stored as a solid, protected from moisture, at -20 °C. Hybrid $PtdInsP_n$s 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 $PtdInsP_n$s should be flash frozen in liquid nitrogen and stored at -20 °C between uses. $PtdInsP_n$s are stable for at least three months when handled in this way. Repeated freeze/thaw cycles do not affect $PtdInsP_n$s. Do not store reconstituted $PtdInsP_n$s, 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 $PtdInsP_n$s have very limited solubility in $CHCl_3$-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.

Reference:

P.W. Rzepecki and G.D. Prestwich (2002) Synthesis of hybrid lipid probes: derivatives of phosphatidylethanolamine-extended phosphatidylinositol 4,5-bisphosphate (Pea-PIP_2). *J Org Chem*, **67**, 5454-60.