Product Name: BODIPY® TMR Hybrid-PtdIns(4,5)P₂

Product No. H-45TM

Molecular Weight: 2,225

Quantity: 50 µg, lyophilized powder, triethylammonium salt

Storage: Hybrid Phosphatidylinositol polyphosphates (PtdInsPₙₜₙ) and analogs are stable for at least one year when stored as a solid, protected from moisture, at -20 °C. Hybrid PtdInsPₙₜₙ 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 buffers (pH > 9) will result in slow hydrolysis of the ester chains, and may cause phosphate or acyl migration to occur. Storage in acidic solutions (pH < 4) may cause decomposition or phosphate migration. After reconstitution, solutions of PtdInsPₙₜₙ should be flash frozen in liquid nitrogen and stored at -20 °C between uses. PtdInsPₙₜₙ are stable for at least three months when handled in this way. Repeated freeze/thaw cycles do not affect PtdInsPₙₜₙ. Do not store reconstituted PtdInsPₙₜₙ, 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 PtdInsPₙₜₙ have some limited solubility in CHCl₃-MeOH and other organic solvents, and are not recommended for preparing phospholipid liposomes.

Suggested Use: Fluorescently-labeled PtdInsPₙₜₙ are take up by cells in culture. 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 on 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.