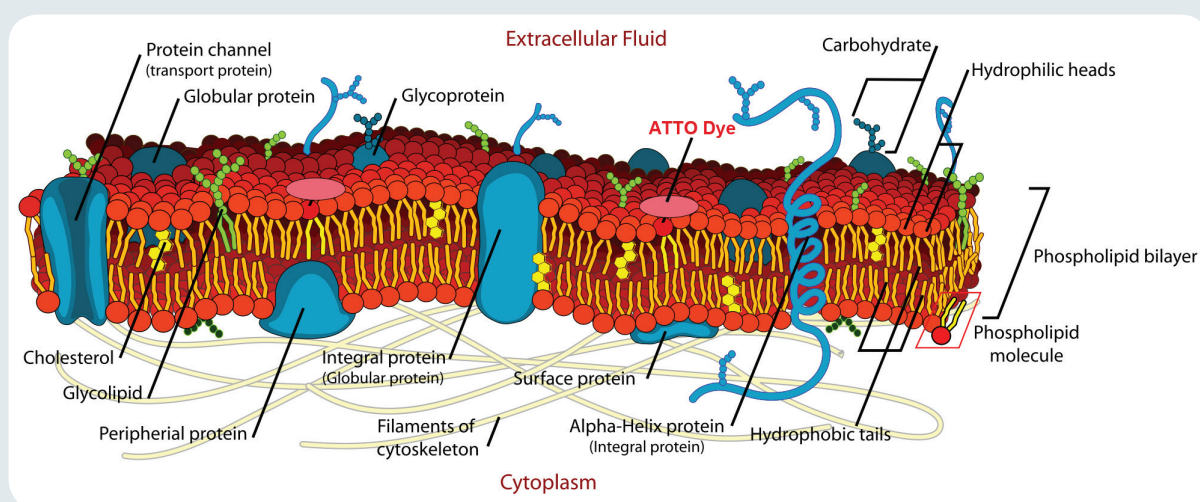


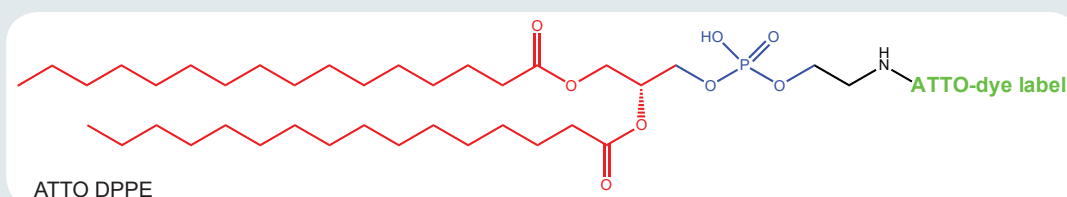
ATTO-Dye Labeled Phospholipids

In recent years the investigation of biological membranes, e.g. intracellular membranes of live cells, plasma membranes, has become a major subject of interest in life science. As a result there is a growing demand for fluorescent lipids, in particular phospholipids, to be incorporated in biological membranes.



ATTO-TEC offers a large variety of dye labeled phospholipids, based on glycerol, carrying one or two fatty acid chains (lipophilic group) and a phosphate monoester residue (hydrophilic group).

ATTO-fluorescent phospholipids are labeled at the hydrophilic head group. After incorporation in a membrane (phospholipid bilayer) the fluorophore is located at the water/lipid interface of the membrane.



Currently available Lipids:

- DPPE** (1,2-dipalmitoyl-sn-glycero-3-phosphoethanolamine)
- DOPE** (1,2-dioleoyl-sn-glycero-3-phosphoethanolamine)
- PPE** (1-palmitoyl-2-hydroxy-sn-glycero-3-phosphoethanolamine)
- DMPE** (1,2-dimyristoyl-sn-glycero-3-phosphoethanolamine)
- DLPE** (1,2-dilauroyl-sn-glycero-3-phosphoethanolamine)

The lipids are labeled with various ATTO-dyes, e.g. ATTO 390, ATTO 425, ATTO 430LS, ATTO 465, ATTO 490LS, ATTO 488, ATTO 532, ATTO 550, ATTO 565, ATTO 594, ATTO 633, ATTO 643, ATTO 647N, ATTO 655, ATTO 680 ...

Please visit www.atto-tec.com to find a full list of all available ATTO-labeled phospholipids.