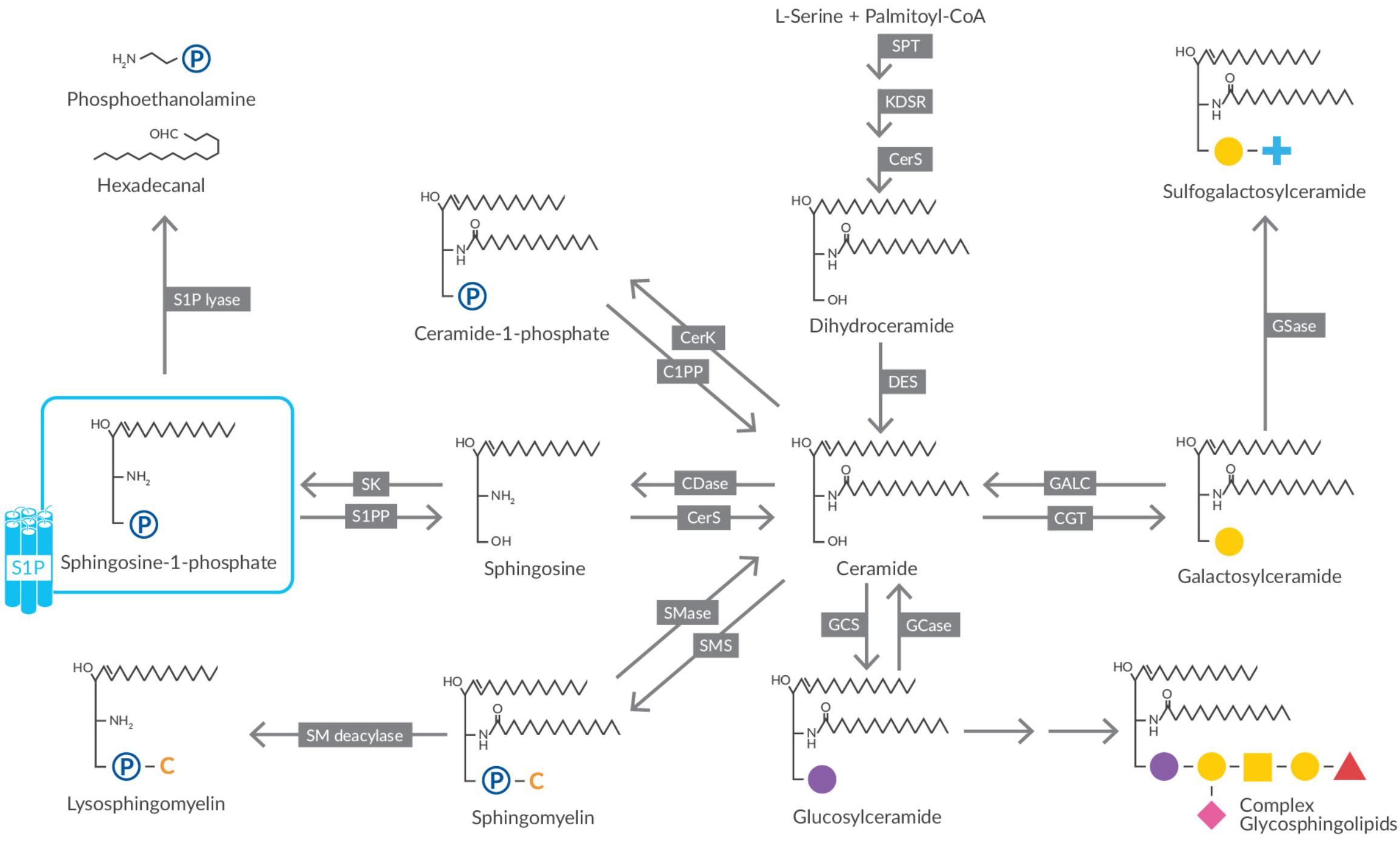


S1P Biosynthesis

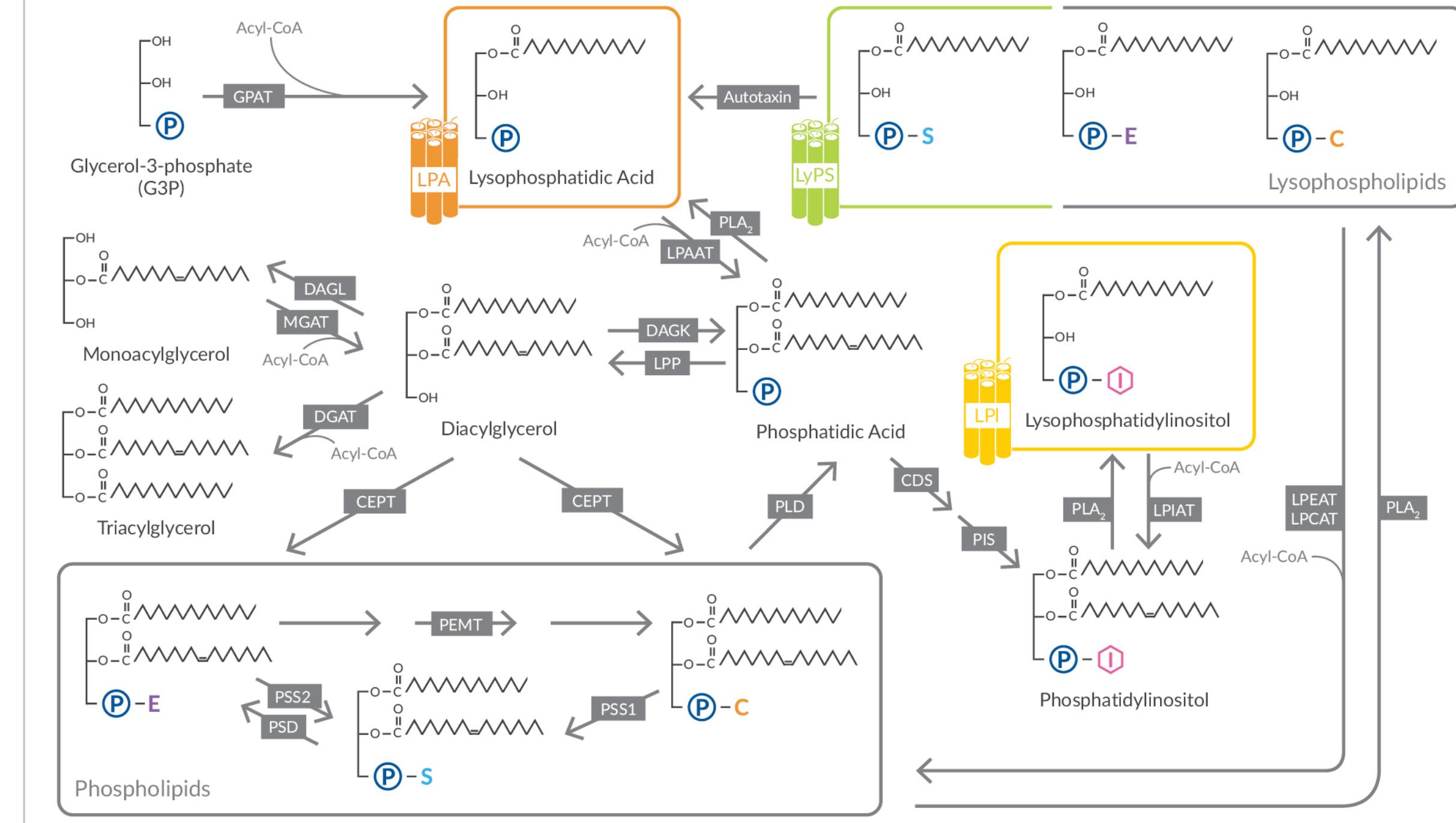


Functional Groups

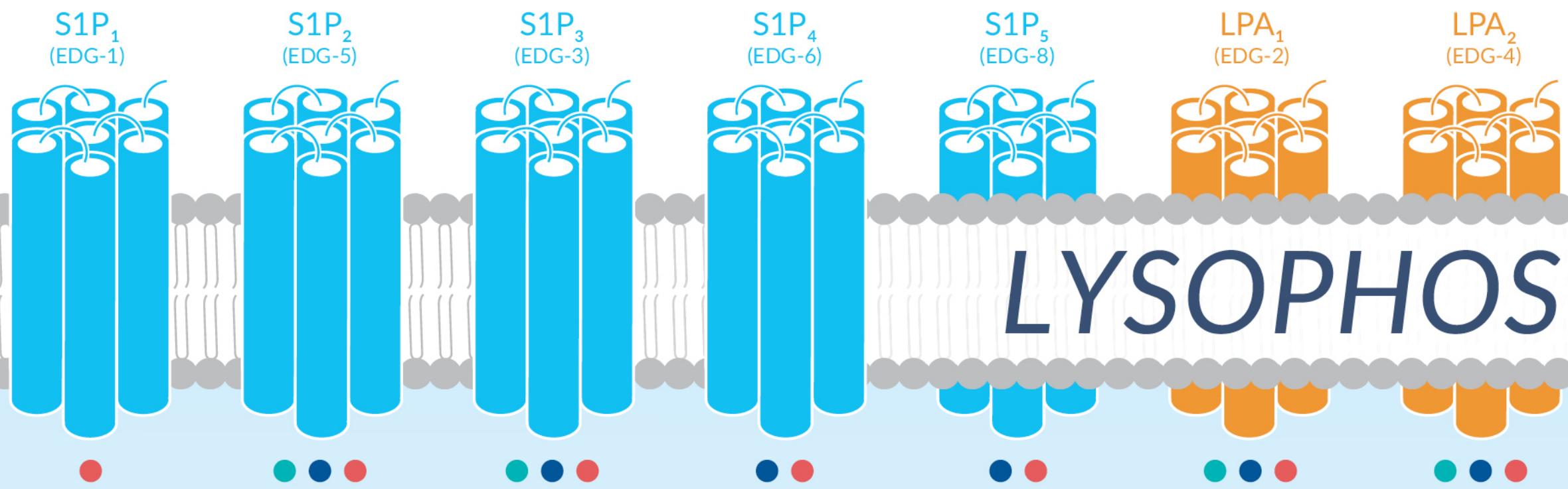
- Gal Phosphate
- Glc Choline
- GalNAc Serine
- ▲ Fuc Inositol
- ◆ Sialic acid
- +/- Ethanolamine
- + Sulfate

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LPA, LysoPS, and LPI Biosynthesis

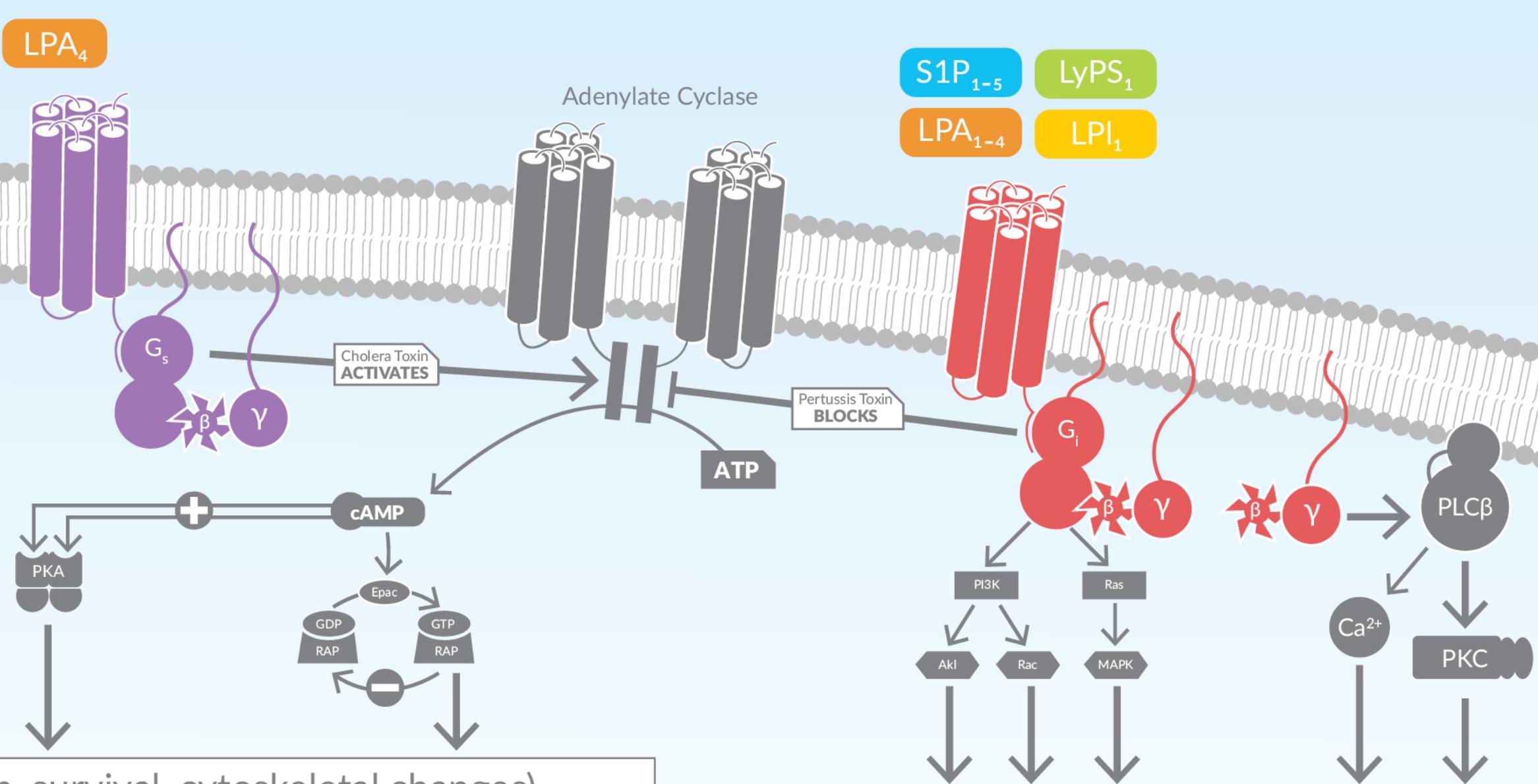
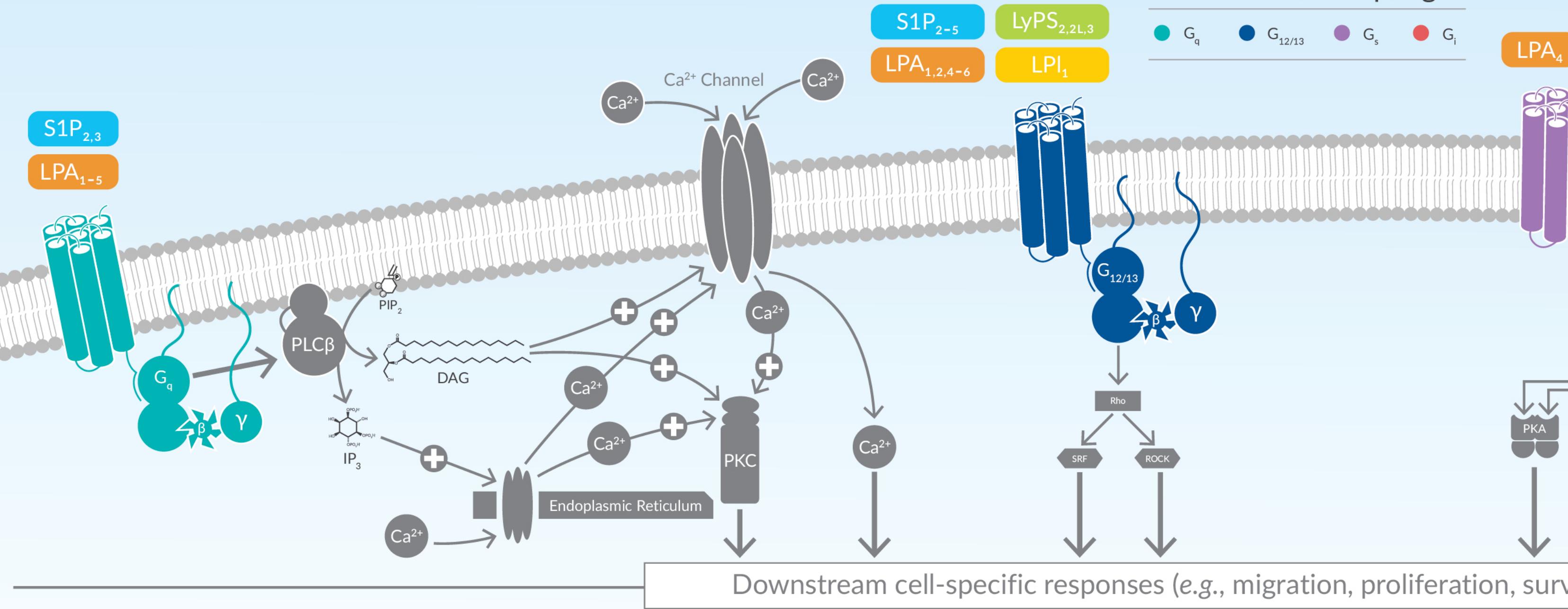


LYSOPHOSPHOLIPID SIGNALING



G Protein Coupling

- G_q
- G_{12/13}
- G_s
- G_i



Downstream cell-specific responses (e.g., migration, proliferation, survival, cytoskeletal changes)