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1. Plasmalogen are found in numerous human tissues with particular enrichment in the nervous, immune and Cardiovascular System. In human heart tissue, nearly 30-40% of Chlorine glycerophospholipids are plasmalogens. Even more striking is the fact that 32% of glycerophospholipids in the adult human heart and 20% in brain and up to 70% of myelin sheath ethenolamine glycerophospholipids are plasmalogens.

Although the functions of plasmalogens have not yet been fully elucidated, it has been demonstrated that they can protect mammalian cells against the damaging effect of reactive oxygen species. In addition, they have been implicated as being signaling molecules and modulators of membrane dynamics.

2. Examples of plasmalogens

(i) Sn-1 Position

(ii) Sn-2 Position

(iii) head group.

