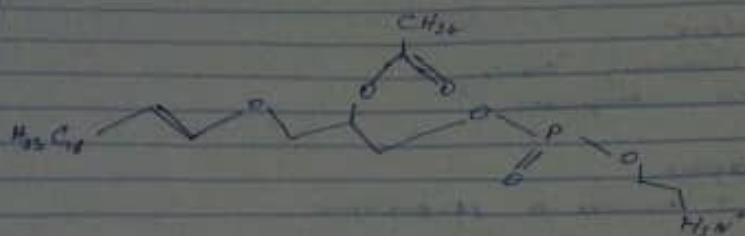


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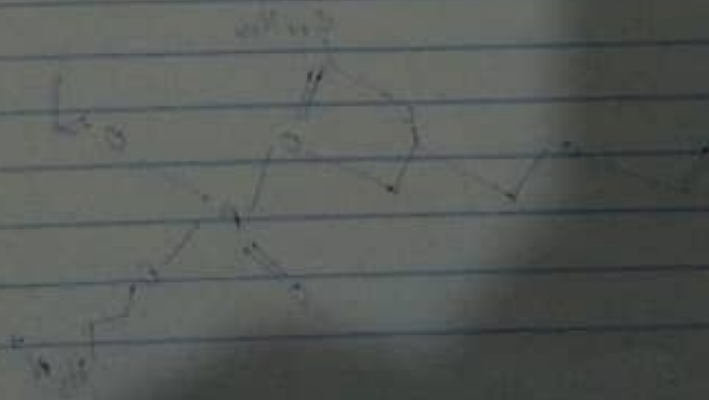


5 Give 2 differences between Phospholipids and Phosphoglycerides

PHOSPHOLIPIDS:

PHOSPHOGYCERIDES

- |  |  |
|--|--|
| 1. They are required for the proper functions of integral membrane proteins and for the generation of lipid second messengers. | They are reservoir intracellular messenger.                    |
| 11. They can protect mammalian cells against the damaging effect of reactive oxygen species.                                   | They serve as a structural complement of biological membranes. |



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BCN 200 Assignment

1. What are Plasmalogens
2. Name and draw 3 examples of plasmalogens.
3. Give 2 differences between Plasmalogens and phosphoglycerides

Answer

1. What are Plasmalogens  
These are phospholipids which have an aliphatic long chain  $\alpha$ - $\beta$  unsaturated alcohol in other linkage with the first hydroxyl group of glycerol. The second OH-group is esterified to a fatty acid. The phosphoric acid is attached to either an ethanolamine. The alcohols have about C12 to C18 chain length. Plasmalogens are found in biomembranes in brain and muscle.

2. Name and draw 3 examples of plasmalogens

i) Ethanolamine plasmalogens

ii) Plasmoyl phospholipids

iii) Plasmoyl phospholipids

