CONCEPT: MEMBRANE STRUCTURE

c. phospholipase C.d. phospholipase D.

22. The phospholipase that is likely to remove an unsaturated fatty acid from a phospholipid is:	
a.	phospholipase A1.
b.	phospholipase A2.

- 23. The shortest helix segment that could span a biological membrane has about _____ amino acids.
 - a. 5
 - b. 20
 - c. 50
 - d. 100
 - e. 200
- 24. An integral membrane protein can be extracted with:
 - a. a buffer of alkaline or acid pH
 - b. a chelating agent that removes divalent cations
 - c. a solution containing detergent
 - d. a solution of high ionic strength
 - e. hot water
- 25. Which of the following are not enzymes involved in moving phospholipids form one leaflet to another?
 - a. Flippases that move phosphatidylethanolamine and phosphatidylserine
 - b. Floppases that move phospholipids from the cytosolic leaflet to the extracellular leaflet
 - c. Fip-flopases that allow phospholipids to move back and forth between the inner and outer leaflets
 - d. Scramblases that allow phospholipids to move down their concentration gradient
 - e. Phosphatidylinositol transfer proteins that play a role in lipid signaling.
- 26. The plasma membrane of animal cells contains 45% by weight of phospholipid and 55% of protein. What is the mole ratio of lipid to protein assuming the average molecular weight of phospholipid is 750 daltons and the average molecular weight of membrane proteins is 60,000 daltons?