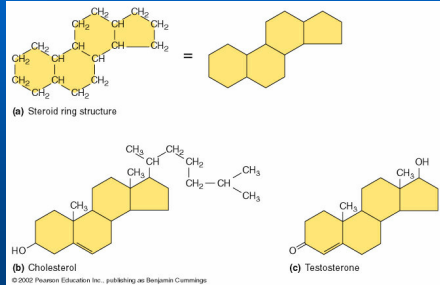


Steroids



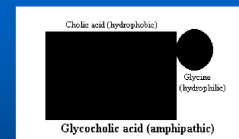
So, What are
Prostaglandins?

Digestion of Triglyceride

- A triglyceride molecule cannot be directly absorbed across the intestinal mucosa
- It must first be digested into a monoglyceride and two free fatty acids.
- The enzyme that performs this hydrolysis is pancreatic lipase, which is delivered into the lumen of the gut as a constituent of pancreatic juice.
- Sufficient quantities of bile salts must also be present in the lumen of the intestine in order for lipase to efficiently digest dietary triglyceride

Role of Bile Acids

- Bile acids are derivatives of cholesterol synthesized in the hepatocyte.
- Bile acids are amphipathic
- Emulsification of lipid aggregates
- Solubilization and transport of lipids in an aqueous environment
- Hepatic synthesis of bile acids accounts for the majority of cholesterol breakdown in the body



Pancreatic lipase and Obesity

The drug orlistat (Xenical) is a pancreatic lipase inhibitor that interferes with digestion of triglyceride and thereby reduces absorption of dietary fat. Clinical trials support the contention that inhibiting lipase can lead to significant reductions in body weight in some patients.