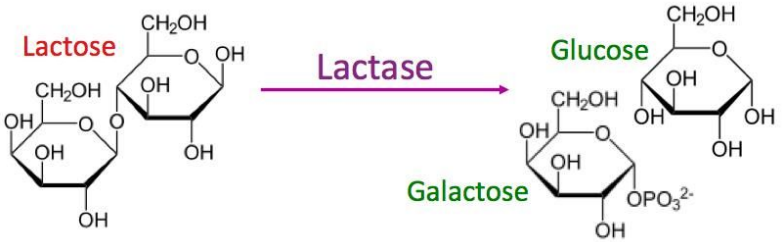
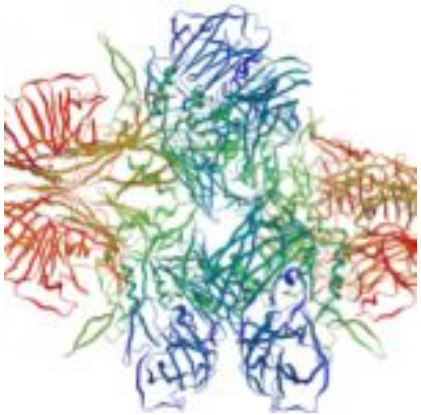
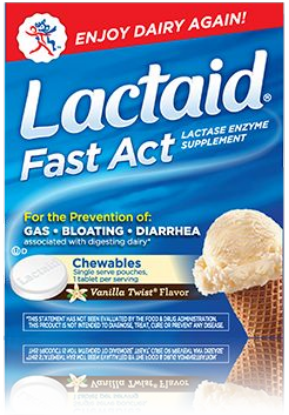
Lactase





This enzyme is able to break lactose into galactose and glucose and is found in products like Lactaid milk.

- Four identical subunits of 1,032 amino acids combine to form a quaternary structure that is 4,092 amino acids large.
- Lactase contains the atoms CHONS.

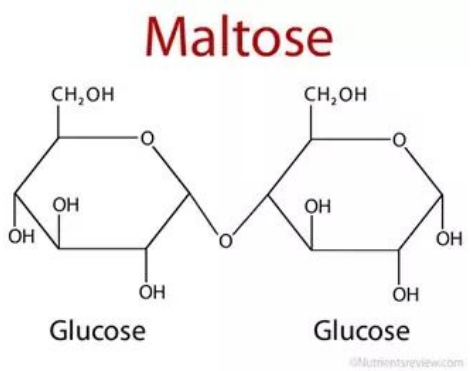


Bromelain

This enzyme is found in pineapple and is used as a meat tenderizer because bromelain can break apart collagen.

- The sequence of bromelain is 212 amino acids long.
- This molecule also has medical uses.
- Made of CHONS atoms

Maltose

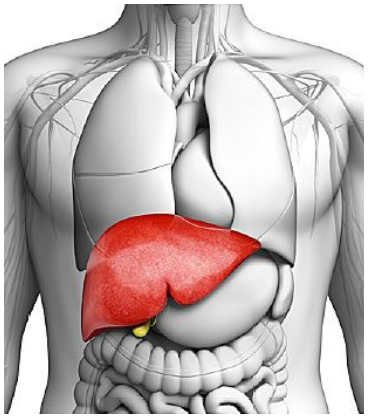


This molecule is formed in the mouth from the breakdown of starch by the salivary amylase protein.

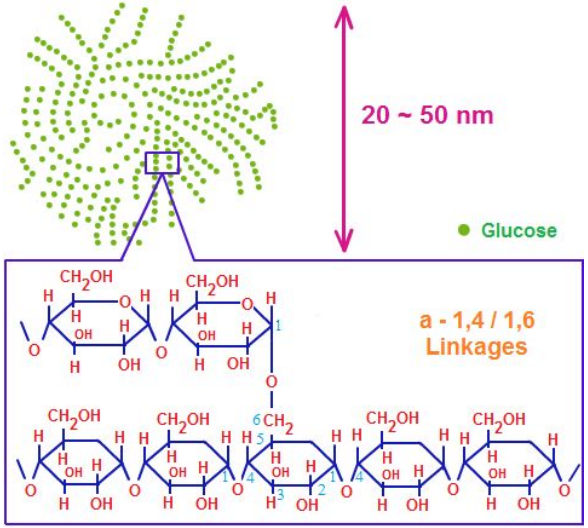
- This molecule consists of two rings made of CHO atoms.
- Found in bread, tootsie rolls and bagels

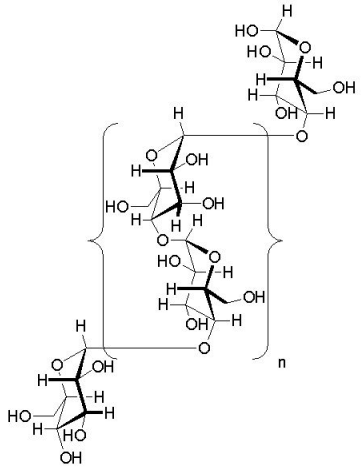
Glycogen

This molecule is made and primarily stored in the liver. This molecule supplies the blood with glucose when blood sugar drops.

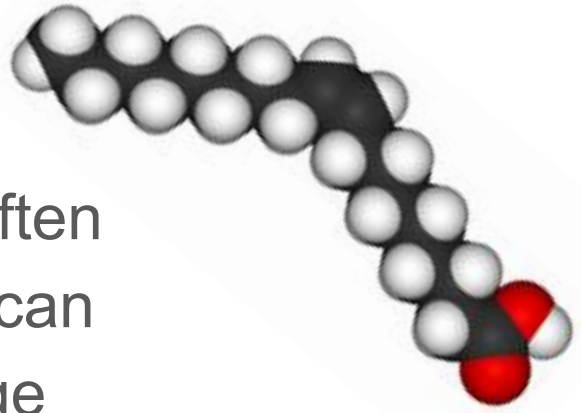


- This molecule consists of branched chains of glucose.
- This molecule contains CHO atoms.





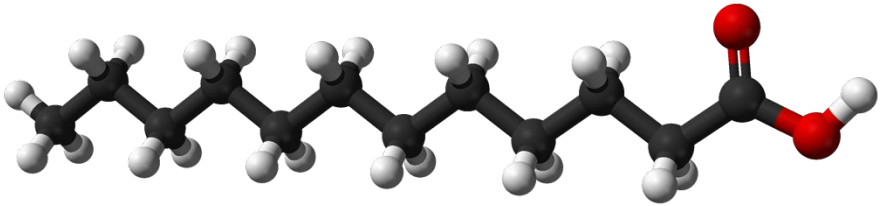
Oleic Acid

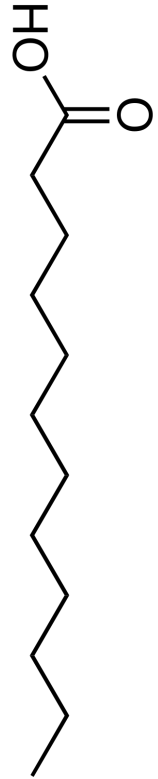


This molecule is found in butter and is often added to toasted bread. This molecule can not dissolve in water and provides a large amount of energy to cells.

- This molecule consists of long chains of hydrogen and oxygen.
- This molecule contains CHO atoms.

Lauric Acid



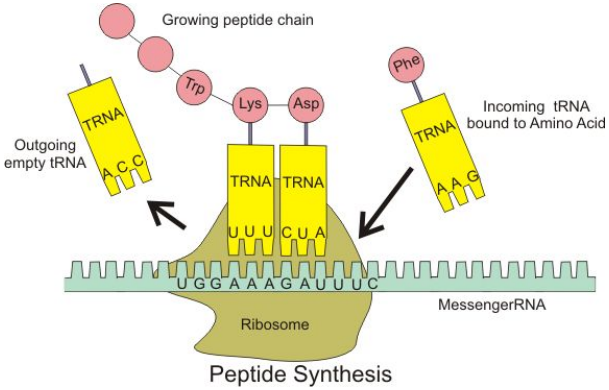


This molecule improves the flavor of popcorn and makes up about half of the molecules found in coconut oil. This molecule also provides energy to cells.

- This molecule consists of long chains of hydrogen and oxygen and does not have any double bonded carbons.
- This molecule contains CHO atoms.

tRNA

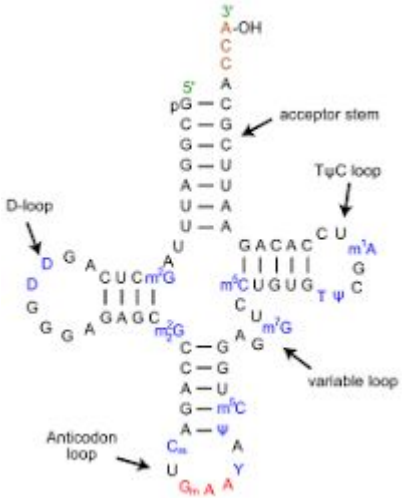
This molecule is found in the cytoplasm of every cell and helps the ribosome make proteins.



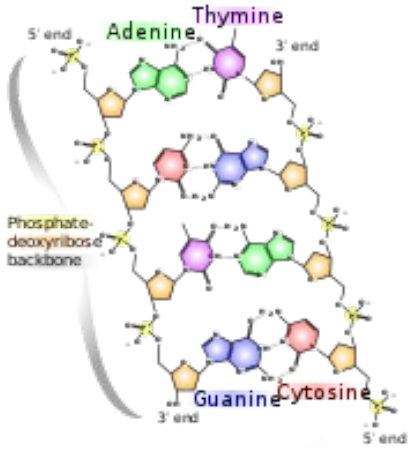
Peptide Synthesis


Spacefill Model

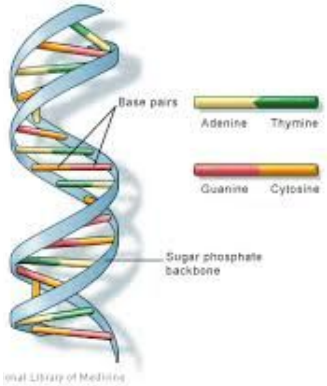
- This molecule consists of a chain of nucleotides. Parts of the molecule are single stranded and other parts are double stranded.
- This molecule contains CHONP atoms.



Deoxyribonucleic Acid (DNA)



This molecule is found in the nucleus of every cell and provides information on heredity.



- This molecule consists a double stranded chain of nucleotides.
- This molecule contains CHONP atoms.