



***Al-Mustaqbal University College***

***Department of Medical Physics***

***Lecture 3***

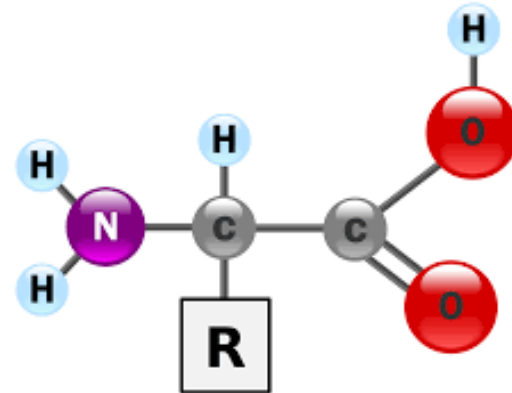
***Amino acids & peptide***

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# Amino Acids

Amino acids are any group of organic molecules that contain a basic amine group (NH<sub>2</sub>), a carboxylic acid group (COOH), and an organic group R that are unique to each amino acid and are the building blocks of proteins. And its shape is as follows:



Amino acids differ from each other according to the specific chemical group, the R group

# The importance of amino acids

1- Help improve general mood; That is, the mental and psychological state of the human body An example is the amino acid tryptophan, which is essential for the production of serotonin.

2- Protein building :When protein is broken down, the amino acids in the body build up the protein in the body again.

3- Amino acids, such as arginine, help the body's arteries maintain their elasticity.