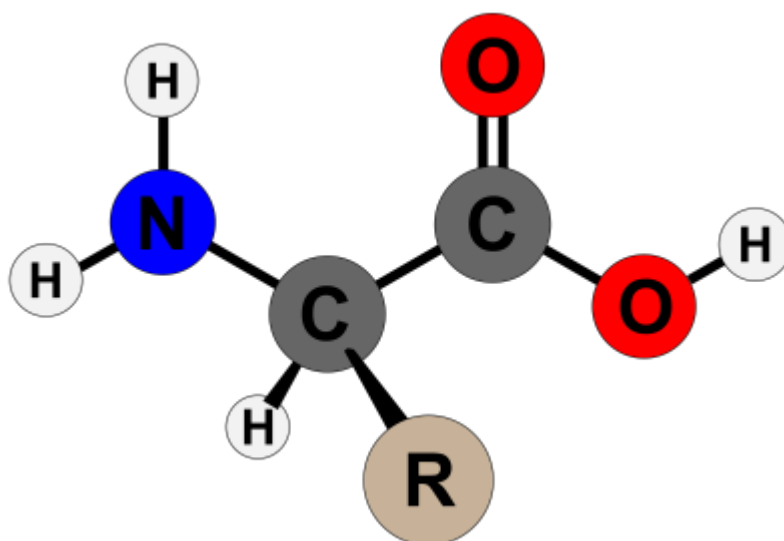


# Amino acid



Amino acids (*/ə'mi:nɒs/*, */ə'maɪnɒs/*, or */'æmɪnɒs/*) are biologically important organic compounds composed of **amine** (-NH<sub>2</sub>) and carboxylic acid (-COOH) functional groups, along with a side-chain specific to each amino acid. The key elements of an amino acid are carbon, hydrogen, oxygen, and nitrogen, though other elements are found in the side-chains of certain amino acids.

## Types

**Proteins** can be made from 20 different kinds of **amino acids**, and the structure and function of each protein are determined by the kinds of amino acids used to make it and how they are arranged.

About 500 amino acids are known and can be classified in many ways. They can be classified according to the core structural functional groups' locations as alpha- (α-), beta- (β-), gamma- (γ-) or delta- (δ-) amino acids; other categories relate to polarity, pH level, and side-chain group type (aliphatic, acyclic, aromatic, containing hydroxyl or sulfur, etc.). In the form of proteins, amino acids comprise the second-largest component (water is the largest) of human muscles, cells and other tissues.

Outside proteins, amino acids perform critical roles in processes such as neurotransmitter transport and biosynthesis.

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