Proteins enzymes and amino acids.

Sameen Sahajwalla*

Department of Materials Research and Biology, University of New South Wales, Sydney, Australia

Accepted Date September 2, 2021

Description

Protein has many roles in your body and it helps to repair and build your body's tissues and allows metabolic reactions to take place and coordinates bodily functions. In addition to providing your body with a structural frame work, proteins also maintain proper pH and fluid balance. Protein is crucial to good health. In Greek Proteins are also called as proteos. Proteins are made from amino acids that join together to make long chains. There are 20 amino acids and these help to make the thousands of various proteins in your body. Your body needs protein for maintain tissues and for growth. Under normal circumstances, your body breaks some amount of proteins and it uses to create and repair tissues. Other times, it breaks down more protein than it can create, thus increasing your body's needs. Your body needs protein for growth and maintenance of tissues which are in a constant state of turnover.

of Enzymes are proteins that aid the thousands biochemical reactions that happen within the cells and out of doors of your cells and these enzymes allow them to mix with other molecules inside the cell called substrates, which catalyze reactions that are essential to your metabolism. Some enzymes require other molecules, like vitamins or minerals, for a reaction to require place. enzymes include Bodilv functions that depend on digestion, Energy production, blood clotting, contraction.

Some proteins are hormones, which act as messengers like chemical messengers. Chemical messengers aid communication between your cells, tissues and organs. Hormones can be grouped into three main categories Protein and peptides, Steroids, Amines. Protein and polypeptides make up most of your body's hormones and some of the examples like Insulin, Glucagon, human growth hormone, antidiuretic hormone, adrenocorticotropic hormone. Some proteins are fibrous and that they provide cells and tissues with rigidity and stiffness. These proteins include keratin, collagen and elastin. Keratin is found in your skin, hair and nails. Collagen is that the foremost abundant protein in your body and is that the structural protein of your bones, tendons, ligaments and skin. Protein plays a crucial role in regulating the concentrations of acids and bases in your blood and other bodily fluids.

The balance between acids and bases is measured using the ph. It ranges from 0 to 14, with 0 being the foremost acidic, 7 neutral and 14 the foremost alkaline. PH 2 is Stomach acid, pH 4 is Tomato juice, pH 5 is Black coffee, pH 7 is Human blood, pH 10 is Milk of magnesia and pH 12 is Soapy water. Transport proteins carry substances throughout your bloodstream into cells, out of cells or within cells. For example, hemoglobin may be a protein that carries oxygen from your lungs to body tissues. Glucose transport shows glucose to your cells, while lipoproteins transport cholesterol and other fats in your blood. Protein can supply your body with energy. Protein contains four calories per gram, and carbs also provide the same amount of energy whereas fats supply the most energy, at nine calories per gram.

*Correspondence to

Sameen Sahajwalla

Department of Materials Research and Biology

University of New South Wales

Sydney, Australia

Email: sameen.walla@unsw.edu.au

Citation: sahajwalla S. proteins, Enzymes and amino acids. J Syst Biol Proteome Res 2021;2(1):4