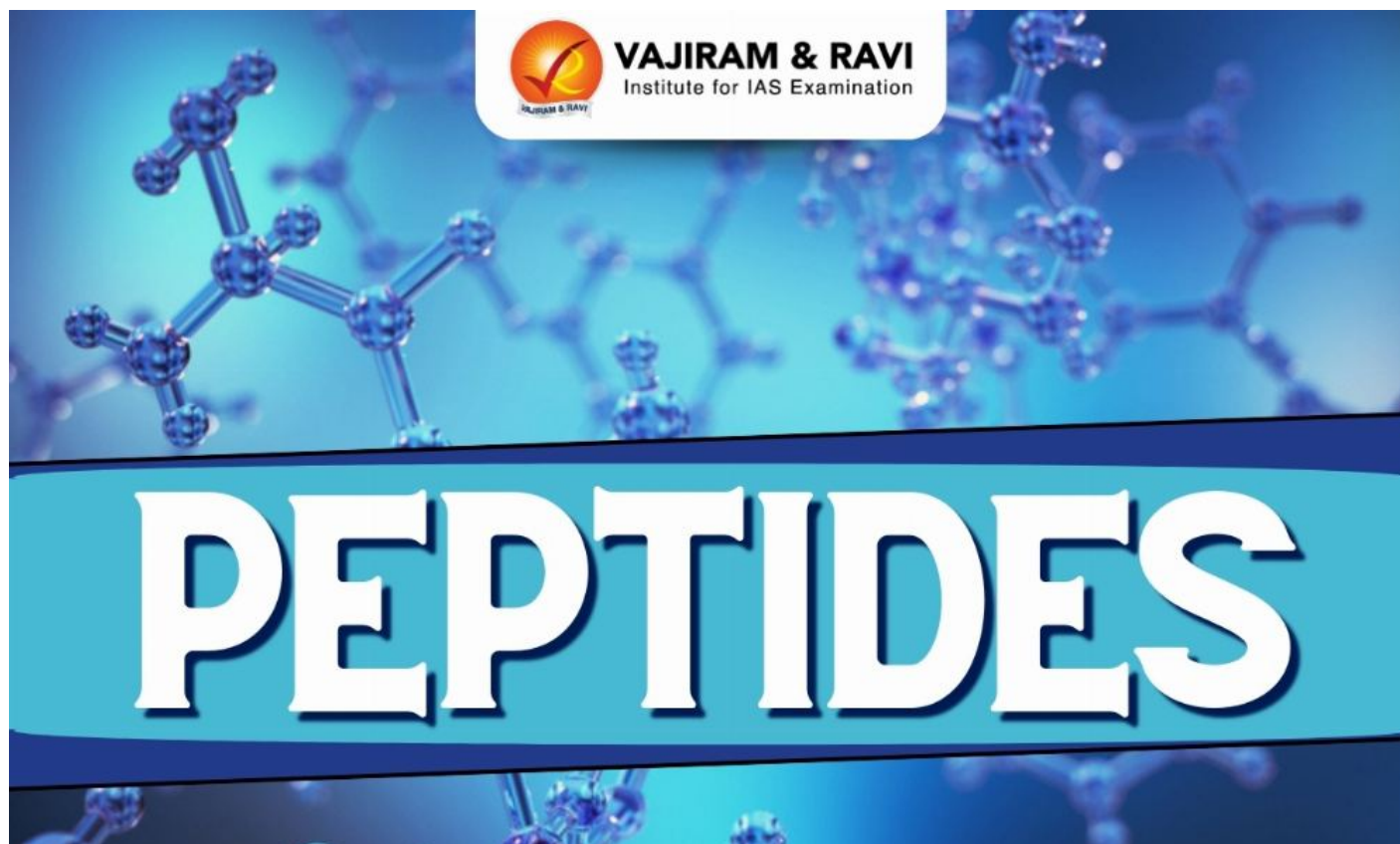


Peptides

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Peptides Latest News

Globally, peptide therapeutics have been gaining attention in research as well as clinical practice.

About Peptides

- Peptides are **chains of amino acids** that are **naturally found in the body**.
- The **amino acids** in a peptide are **connected** to one another in a **sequence by bonds called peptide bonds**.
- **Peptides vs. Proteins:**
 - Proteins and peptides are **fundamental components of cells** that carry out important biological functions.
 - **Both proteins and peptides** are **made up of amino acids**, but **peptides contain far fewer amino acids** than proteins.
 - Traditionally, **peptides** are defined as molecules that consist of **between 2 and 50 amino acids**.
 - Meanwhile, **proteins are long molecules** made up of **multiple peptide subunits**, and are also **known as polypeptides**.

- In addition, **peptides** tend to be **less well defined in structure than proteins**, which can adopt complex conformations known as secondary, tertiary, and quaternary structures.
- **Proteins** can be **digested by enzymes (other proteins) into short peptide fragments**.

Functions of Peptides

- The body makes lots of **different peptides**, each of which has a **different role**.
- They may provide **pro-aging support, anti-inflammatory, or muscle-building properties**.
- **Some peptides act as hormones**, which are molecules that when released from cells, affect other areas of the body.
- Due to the potential health benefits of peptides, many **supplements are available** that contain peptides that manufacturers have derived either from food or made synthetically.

What are Amino Acids?

- Amino acids are **molecules that combine to form proteins**.
- Amino acids and proteins are the building blocks of life.
- There are **20 different amino acids**.
- A **protein consists of one or more chains of amino acids** (called polypeptides) whose **sequence is encoded in a gene**.
- **Some amino acids** can be **synthesized in the body**, but **others (essential amino acids)** cannot and must be **obtained from a person's diet**.
- The **nine essential amino acids** are: **histidine, isoleucine, leucine, lysine, methionine, phenylalanine, threonine, tryptophan, and valine**.

Source: **TH**

Source: <https://vajiramandravi.com/current-affairs/peptides/>

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