

PENTOSE

Meaning: Pentose is a type of monosaccharide with five carbon atoms, important in biological processes and metabolic pathways.

1. Pentose sugars, such as ribose and xylose, play vital roles in biological systems.
2. In the laboratory, chemists often study the metabolic pathways involving pentose phosphate.
3. Ribulose, a type of pentose, is crucial in the photosynthesis process of plants.
4. The pentose cycle is important for the production of nucleotides and nucleic acids.
5. Understanding pentose structures can aid in the development of new pharmaceuticals.

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