

Collagen from bovine achilles tendon

Product Number: C8060

CAS Number : 9007-34-5

Storage Temperature: 2-8°C

Product Description

This product is suitable for use as a substrate for collagenase. It is prepared by modification of the method of Einbinder and Schubert and is not suitable for use in coating glassware.

This collagen is Bornstein and Traub Type I. The Type I classification of collagen is a component of skin, bone, tendon, and other fibrous connective tissues. Type I collagen differs from other collagens by their low lysine hydroxylation and low carbohydrate composition.

Collagen breaks down metabolically in the body to release N-telopeptide, which is the N-terminus of collagen. There is also C-telopeptide, which is presumably the C-terminus. N-telopeptide is released in urine, and its detection in diagnostic tests is used to screen for osteoporosis.

Although different types of collagen exist, they are all composed of molecules containing three polypeptide chains arranged in a triple helical conformation. Slight differences in the primary structure (amino acid sequence) establish differences between the types. The amino acid sequence of the primary structure is mainly a repeating motif with glycine in every third position and proline or 4-hydroxyproline frequently preceding the glycine residue.

Preparation Instructions

This product is an insoluble collagen preparation. It is insoluble in water, aqueous buffers, dilute acid, and organic solvents. For use as a substrate in collagenase assays, this collagen can be prepared as a suspension in 50 mM TES buffer, pH 7.4 with 0.36 mM calcium chloride. but not a clear solution.

Storage/Stability

It is recommended to store this product at 2–8 °C. If stored as recommended, it will have a shelf-life of up to 8 years.

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.