



Collagen-I Protein, Mouse Tail Tendon

Product Data Sheet

Cat. No.:	A12681250	A12681500	A126811MG
Size:	250 µg	500 µg	1 mg

Description

Mouse Collagen-I is a natural protein purified from Mouse tail tendon. Collagen-I is purified by proprietary chromatographic techniques.

Purified Type I Collagen is used in many research applications such as cell culture surface coatings, tissue engineering scaffolds, 3D bioprinting, and cell functional assays.

Summary

Collagen, a major component of the extracellular matrix, is a fibrous protein that provides tensile strength to tissues giving them structural integrity. Collagens contribute to mechanical properties, organization, and shape of tissues. Collagen is the most widely used extracellular matrix (ECM) protein for cell culture, facilitating cell attachment, growth, differentiation, migration, and tissue morphogenesis.

Type I Collagen is by far the most abundant protein in all vertebrates. It assembles into fibers that form the structural and mechanical scaffold (matrix) of bone, skin, tendons, cornea, blood vessel walls and other connective tissues. Type I collagen consists of two $\alpha 1(I)$ chains and one $\alpha 2(I)$ chain.

Other Names

Murine Type 1 Collagen, Type I Collagen, Collagen-1

Source

Mouse tail tendon.

Formulation

Filtered white lyophilized (freeze-dried) powder. Collagen-I was lyophilized without additives.

update.: 02.2024

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Purity

Purity > 90.0%.

Reconstitution

We recommend to add 0.5 M acetic acid, pH 3 at 4° C to prepare a working stock solution not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Shipping

Ships at ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage/Expiration

Lyophilized Collagen-I, although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution, Collagen-I should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% [HSA or BSA](#)). **Please prevent freeze-thaw cycles.**

Usage

This product is intended for **Laboratory Research Use Only**. Not for use in diagnostic or therapeutic procedures. This product may not be used as a pharmaceutical or veterinary drug, agricultural product, or food additive.

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