



Collagen-I Protein, Goat Tissue

Product Data Sheet

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|-----------|-----------|-----------|-----------|
| Cat. No.: | A12682250 | A12682500 | A126821MG |
| Size: | 250 µg | 500 µg | 1 mg |

Description:

Goat Collagen-I is a natural protein purified from Goat tissues. Collagen-I is purified by proprietary chromatographic techniques.

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.

Source:

Goat tissues.

Purity:

Greater than 90.0%

Physical Appearance:

Filtered white lyophilized (freeze-dried) powder.

Formulation:

Collagen-I was lyophilized without additives.

update.: 072021

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**Reconstitution:**

We recommend to add 0.5 M acetic acid, pH 2.5 to prepare a working stock solution not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Shipping:

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

Stability:

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.

Other names:

Type 1 Collagen, Type I Collagen, Collagen-1

Usage:

Ilex Life Sciences products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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