

Native Mouse Collagen-I Protein

Cat. No. Collagen-I-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Collagen-I is a natural protein purified from Mouse tail tendon. Collagen-I is purified by proprietary chromatographic techniques.
Species	Mouse
Source	Tail tendon
Description	Collagen, a major component of the extracellular matrix, is a fibrous protein that provides tensile strength to tissues giving them structural integrity. Collagen and its derivative, gelatin, have been widely used in medical, pharmaceutical and consumer products for more than 100 years. The supply of these materials, created from animal remains, is both abundant and inexpensive. However, most formulations are not highly purified and have the potential to cause an inflammatory reaction in some product users. In addition, concerns have been raised over the last several years about the potential for contamination of bovine products with the agent that causes mad cow disease and its human variant, Creutzfeldt-Jakob Disease. Animal collagens are subject to extensive modifications that continue over the life of the molecule in the extracellular space. These differences influence both the extractability of collagens from tissue and the biophysical characteristics of these collagens. As a result, collagens isolated from tissues exhibit significant lot-to-lot variability and, as bulk materials, are often analytically intractable. Products that contain animal-derived collagen can induce potentially harmful inflammatory or immune responses in humans and pose risk of contamination with viruses or prions, potentially life-threatening pathogens. Recombinant collagens are essentially identical to the native collagen

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	protein thereby reducing the risk of inflammation, immune response, and disease as compared to animal-sourced collagen.
Form	Filtered White lyophilized (freeze-dried) powder.
Purity	> 90.0%.
Notes	Our 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.
Storage	Lyophilized Collagen-I although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution Collagen-I should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Storage Buffer	Collagen-I was lyophilized without additives.
Reconstitution	It is recommended to Add 0.5 M acetic acid, pH 3 at 4 centigrade 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 Room temperature.

GENE INFORMATION

Official Symbol	Collagen-I
Synonyms	Collagen-I

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