



Collagen-V Protein, Bovine Placenta

Product Data Sheet

Cat. No.:	A12677250	A12677500	A126771MG
Size:	250 µg	500 µg	1 mg

Description:

Bovine Collagen-V is a natural protein purified from bovine placenta. Collagen-V 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 V collagen is a member of group I collagen (fibrillar forming collagen). It is a minor connective tissue component of nearly ubiquitous distribution. Type V collagen contributes to the bone matrix, corneal stroma, and the interstitial matrix of muscles, liver, lungs, and placenta. Type V collagen binds to DNA, heparan sulfate, thrombospondin, heparin, and insulin.

Source:

Bovine placenta.

Purity:

Greater than 98.0%

Physical Appearance:

Filtered white lyophilized (freeze-dried) powder.

Formulation:

Collagen-V was lyophilized without additives.

update.: 072021

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**Reconstitution:**

We recommend to reconstitute the lyophilized Collagen-V in 20 mM acetic acid not less than 1 mg/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-V although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution Collagen-V 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 V Collagen, Type 5 Collagen, Collagen-5, COL5A1, Collagen alpha-1(V) chain

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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