

Product datasheet

Natural Human Collagen V protein ab7537

Overview

Product name	Natural Human Collagen V protein
Protein length	Full length protein

Description

Nature	Native
Source	Native
Amino Acid Sequence	
Accession	P20908
Species	Human
Molecular weight	184 kDa
Additional sequence information	Prepared from Human Placenta and is chromatographically and immunologically pure.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab7537** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity	Collagen taken from human species.
Applications	Western blot Immunoprecipitation ELISA
Form	Liquid
Additional notes	This product is free from other collagens, human serum proteins and non-collagen extracellular matrix proteins. This product reacts with anti-Collagen Type V. Reaction with anti-Collagen I, II, III, IV or VI is negligible (typically less than 1% cross reactivity was detected by ELISA). Collagen taken from human species. Denaturing and reducing conditions will greatly diminish reactivity and selectivity of this protein.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
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Preservative: 0.01% Sodium azide

Constituent: 0.06% Acetic acid

General Info

Function	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 binds to DNA, heparan sulfate, thrombospondin, heparin, and insulin.
Involvement in disease	Ehlers-Danlos syndrome 1 Ehlers-Danlos syndrome 2
Sequence similarities	Belongs to the fibrillar collagen family. Contains 1 fibrillar collagen NC1 domain. Contains 1 laminin G-like domain.
Domain	The C-terminal propeptide, also known as COLFI domain, have crucial roles in tissue growth and repair by controlling both the intracellular assembly of procollagen molecules and the extracellular assembly of collagen fibrils. It binds a calcium ion which is essential for its function.
Post-translational modifications	Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains. Sulfated on 40% of tyrosines.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- Replacement or refund for products not performing as stated on the datasheet
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