Human Type III Collagen

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
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<tbody>
<tr>
<td>1230-01S</td>
<td>Purified Protein - Solution</td>
<td>0.5 mg</td>
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Overview

Source | Placental villi
Purification | Controlled and limited pepsin digestion followed by selective salt precipitation
Purity | > 90% by SDS-PAGE
Alternate Name(s) | COL3A1

Description

Collagen is the main structural protein in the extracellular space and is the most abundant protein in the ECM. Collagens are divided into two classes - fibril (types I, II, III, V) and non-fibril (types IV, VI). Type III collagen is expressed in the skin and a variety of internal organs including the lungs, intestinal walls, uterus, and walls of blood vessels and is often associated with type I collagen. It also interacts with platelets in the blood clotting cascade. Type III collagen mutations are associated in a range of diseases including the vascular form of Ehlers–Danlos syndrome. Type III collagen is formed by homotrimers of α1(III) chains.

Applications

ELISA – Quality tested 1-27
SDS-PAGE – Quality tested
SPR – Reported in literature 8,28
Thermal Stability Studies – Reported in literature 29,30
Coating Material for –
  Adhesion Studies – Reported in literature 13,19,22,31-34
  Aggregation Studies – Reported in literature 34
  Blood Disorder Studies – Reported in literature 8-28,32-35
  Differentiation Studies – Reported in literature 36
  ECM Interaction Studies – Reported in literature 37-38

Handling and Storage

- The purified protein is supplied as a solution of 0.5 mg collagen in 1.0 mL of 500 mM acetic acid. Store at 2-8°C.
- Reagent is stable for the period shown on the label if stored as directed.

Warning

Reagent contains acetic acid. Please refer to product specific SDS.

For Research Use Only. Not for Diagnostic or Therapeutic Use.
References


In accordance with current Good Manufacturing and Good Laboratory Practices (cGMP/GLP), any protein of human blood origin should be handled pursuant to your organization’s documented safety procedures and as if it is capable of transmitting infection. This product has NOT been tested for viral, bacterial, or other infectious agents such as, but not limited to, HIV, HbsAg, and HCV.