Human Type I Collagen

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
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<tbody>
<tr>
<td>1200-01S</td>
<td>Purified Protein - Solution</td>
<td>0.5 mg</td>
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</tbody>
</table>

**Overview**

**Source**
Placental villi

**Purification**
Controlled and limited pepsin digestion followed by selective salt precipitation

**Purity**
> 90% by SDS-PAGE

**Alternate Name(s)**
COL1A1, COL1A2

**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 I collagen is the most abundant collagen and is expressed in almost all connective tissues including skin, tendon, and bone tissue. It is also the predominant component of the interstitial matrix. Type I collagen mutations are associated in a range of diseases including osteogenesis imperfecta and Ehlers-Danlos syndrome. Type I collagen consists of two α1(I) chains and one α2(I) chain.

**Applications**

ELISA – Quality tested 1,2,3,4,5,6,7,8,9,13,14,15,16,17,18,19,20,21
SDS-PAGE – Quality tested
WB – Reported in literature 16,17,20,21
SPR – Reported in literature 22,23
Cell Culture – Reported in literature 18,19
Stimulation Studies – Reported in literature 20
Coating Material for –
Adhesion Studies – Reported in literature 21,22
Autoimmune Studies – Reported in literature 22,23
Blood Disorder Studies – Reported in literature 23,24
Differentiation Studies – Reported in literature 25
ECM Interaction Studies – Reported in literature 25,26
Migration Studies – Reported in literature 25,26

**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.

**References**


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


In accordance with current Good Manufacturing and Good Laboratory Practices (cGMP/cGLP), 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.