Human Type IV Collagen

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
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<tbody>
<tr>
<td>1250-01S</td>
<td>Purified Protein - Solution</td>
<td>0.5 mg</td>
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</tbody>
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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)
- COL4A1, COL4A2, COL4A3, COL4A4, COL4A5, COL4A6

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 IV collagen is primarily expressed in the basal lamina and therefore constitutes a portion of the basement membrane. Type IV collagen mutations are associated with Alport syndrome and the α3(IV) chain is thought to be the antigen implicated in Goodpasture's syndrome. Type IV collagen is comprised of six isomeric chains designated α1(IV) to α6(IV).

Applications

- ELISA – Quality tested \(^{2,4}\)
- SDS-PAGE – Quality tested \(^{1}\)
- Coating Material for –
  - Adhesion Studies – Reported in literature \(^{5,6}\)
  - Blood Disorder Studies – Reported in literature \(^{2,4}\)
  - Differentiation Studies – Reported in literature \(^{7}\)
  - ECM Interaction Studies – Reported in literature \(^{8,9}\)

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


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.