

## Recombinant Human Collagen $\alpha$ -1(III) Chain/COL3A1 Protein (His Tag)

Catalog Number: PDEH100820

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

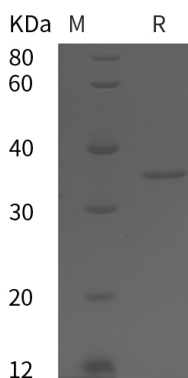
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human Collagen $\alpha$ -1 Chain protein Asp1222-Leu1466, with an N-terminal His
<b>Calculated MW</b>	26.8 kDa
<b>Observed MW</b>	35 kDa
<b>Accession</b>	p02461
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 10 EU/mg of the protein as determined by the LAL method
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

### Data



SDS-PAGE analysis of Human Collagen  $\alpha$ -1(III) Chain/COL3A1 proteins, 2  $\mu$ g/lane of Recombinant Human Collagen  $\alpha$ -1(III) Chain/COL3A1 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 35 kDa.

### Background

This gene encodes the pro- $\alpha$ 1 chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.

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