

## Product datasheet for **TP701247**

### Collagen IV (COL4A3) (NM\_000091) Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human collagen, type IV, alpha 3 (Goodpasture antigen) (COL4A3), with C-terminal HIS/DDK tag, expressed in HEK293 cells, 50ug
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	<pre> 1   MALWIDRMQL LSCIALSLAL VTNSAGFVFT RHSQTTAIPS CPEGTVPLYS GFSFLFVQGN 61  QRAHGQDLGT LGSCLQRFTT MPFLFCNVND VCNFASRNDY SYWLSTPALM PMNMAPITGR 121 ALEPYISRCT VCEGPAIAIA VHSQTDDIPP CPHGWISLWK GFSFIMFTSA GSEGTGQALA 181 SPGSCLEEFR ASPFLECHGR GTCNYYSNSY SFWLASLNPE RMFRKPIPST VKAGELEKII 241 SRCQVCMKKR GGGGSDYKDD DDKHHHHHHHH HHH </pre>
<b>Tag:</b>	C-HIS/DDK
<b>Predicted MW:</b>	27.5 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate Bradford method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	PBS, pH 7.4, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000082</a>
<b>Locus ID:</b>	1285
<b>UniProt ID:</b>	<a href="#">Q01955</a>
<b>RefSeq Size:</b>	8050
<b>Cytogenetics:</b>	2q36.3
<b>RefSeq ORF:</b>	5010
<b>Synonyms:</b>	ATS2; ATS3



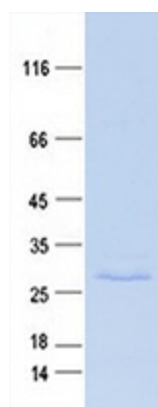
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**Summary:**

Type IV collagen, the major structural component of basement membranes, is a multimeric protein composed of 3 alpha subunits. These subunits are encoded by 6 different genes, alpha 1 through alpha 6, each of which can form a triple helix structure with 2 other subunits to form type IV collagen. This gene encodes alpha 3. In the Goodpasture syndrome, autoantibodies bind to the collagen molecules in the basement membranes of alveoli and glomeruli. The epitopes that elicit these autoantibodies are localized largely to the non-collagenous C-terminal domain of the protein. A specific kinase phosphorylates amino acids in this same C-terminal region and the expression of this kinase is upregulated during pathogenesis. This gene is also linked to an autosomal recessive form of Alport syndrome. The mutations contributing to this syndrome are also located within the exons that encode this C-terminal region. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter. [provided by RefSeq, Jun 2010]

**Protein Families:**

Druggable Genome

**Product images:**

Purified recombinant protein COL4A3 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.