

# Recombinant Mouse COL4A2 Protein (1481-1707 aa), His-tagged

**Cat. No.** COL4A2-2373M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse COL4A2 Protein (1481-1707 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Partial.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	1481-1707 aa
<b>Description</b>	Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen. Canstatin, a cleavage product corresponding to the collagen alpha 2(IV) NC1 domain, possesses both anti-angiogenic and anti-tumor cell activity. It inhibits proliferation and migration of endothelial cells, reduces mitochondrial membrane potential, and induces apoptosis. Specifically induces Fas-dependent apoptosis and activates procaspase-8 and -9 activity. Ligand for alphavbeta3 and alphavbeta5 integrins.
<b>Form</b>	Tris-based buffer,50% glycerol
<b>Molecular Mass</b>	29.1 kDa
<b>AA Sequence</b>	VSIGYLLVKHSQTDQEPMCPVGMNKLWSGYSLLYFEGQEKAHNQDLGLAGSCLAR

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FSTMPFLYCNPGDVCYYASRNDKSYWLSTTAPLPMMPVAAAAEIKPYISRCSVCEAP  
 AVAIAVHSQDTSIPHCPAGWRSLWIGYSFLMHTAAGDEGGGQSLVSPGSCLEDFRA  
 TPFIECNGGRGTCHYFANKYSFWLTTIPEQNFQSTPSADTLKAGLIRTHISRCQVCM  
 KNL

**Purity** > 85% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**Storage** The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration** A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

## GENE INFORMATION

**Gene Name** Col4a2 collagen, type IV, alpha 2 [ *Mus musculus* ]

**Official Symbol** COL4A2

**Synonyms** COL4A2; collagen, type IV, alpha 2; collagen alpha-2(IV) chain; canstatin; Col4a-2; MGC7371;

**Gene ID** 12827

**mRNA Refseq** NM\_009932

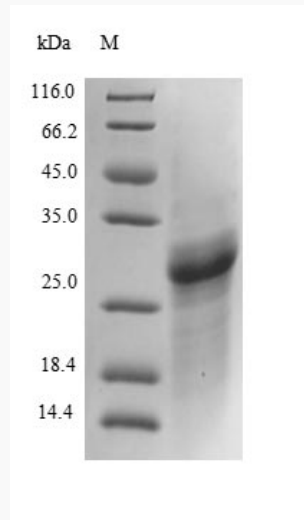
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Protein Refseq NP\_034062

UniProt ID P08122



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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