

Recombinant Mouse Col3a1 protein, His-tagged

Cat. No. Col3a1-7928M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Col3a1 aa. (Gly434~Pro643 (Accession # P08121)) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Gly434~Pro643
Description	This gene encodes the alpha-1 subunit of the fibril-forming type III collagen found in bone, cartilage, dentin, tendon, bone marrow stroma and other connective tissue. The encoded protein forms homotrimeric type III procollagen that undergoes proteolytic processing during fibril formation. A majority of mice lacking the encoded protein die within two days of birth but about 5% of the animals survive to adulthood. The surviving mice exhibit severe cortical malformation and experience significantly shorter lifespan. The mutant mouse named "tight skin 2" exhibiting systemic sclerosis phenotype was found to harbor a missense point mutation in this gene. A pseudogene of this gene has been defined on chromosome 8.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.3kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 9.1.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Col3a1 collagen, type III, alpha 1 [Mus musculus (house mouse)]
Official Symbol	Col3a1
Synonyms	Col3a1; collagen, type III, alpha 1; Tsk2; Tsk-2; Col3a-1; AW550625; collagen alpha-1(III) chain; procollagen, type III, alpha 1
Gene ID	12825

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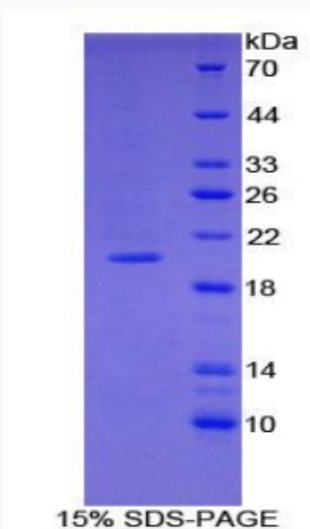
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mRNA Refseq NM_009930.2

Protein Refseq NP_034060.2

UniProt ID P08121

SDS-PAGE



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