

Recombinant Mouse Col3a1 Protein, His&GST-tagged

Cat. No. Col3a1-1282M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Col3a1 Protein (Gln24-Pro154) with N-His&GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Gln24-Pro154
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: 43.4 kDa Accurate Molecular Mass: 53 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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
mRNA Refseq	NM_009930
Protein Refseq	NP_034060

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UniProt ID

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