Recombinant Mouse Col1a1 Protein, His-tagged

Cat. No. Col1a1-1277M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Col1a1 Protein (Asp1208-Val1453) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Asp1208-Val1453
Description	This gene encodes the alpha-1 subunit of the fibril-forming type I collagen, the most abundant protein of bone, skin and tendon extracellular matrices. The encoded protein, in association with alpha-2 subunit, forms heterotrimeric type I procollagen that undergoes proteolytic processing during fibril formation. Mice lacking the encoded protein die in utero caused by the rupture of a major blood vessel. Transgenic mice expressing significantly lower levels of this gene exhibit morphological and functional defects in mineralized and non-mineralized connective tissue and, progressive loss of hearing.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.2 kDa Accurate Molecular Mass: 33 kDa
Purity	> 95%

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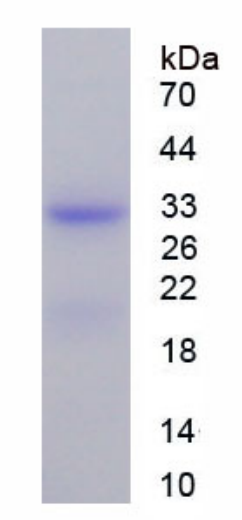
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. 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	100mM NaHCO3, 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 100mM NaHCO3, 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Col1a1 collagen, type I, alpha 1 [Mus musculus (house mouse)]
Official Symbol	Col1a1
Synonyms	Col1a1; collagen, type I, alpha 1; Cola1; Mov13; Cola-1; Mov-13; Col1a-1; collagen alpha-1(I) chain; alpha-1 type 1 collagen; alpha-1 type I collagen; procollagen, type I, alpha 1
Gene ID	12842
mRNA Refseq	NM_007742
Protein Refseq	NP_031768

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UniProt ID	P11087



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