

Recombinant Mouse Col2a1 Protein, His-tagged

Cat. No. Col2a1-1279M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Col2a1 Protein (Asp1242-Leu1487) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Asp1242-Leu1487
Description	This gene encodes the alpha-1 subunit of the fibril-forming type II collagen, the major component of cartilage and the vitreous humor of the eye. The encoded preproprotein forms homotrimeric, triple helical procollagen that undergoes proteolytic processing during fibril formation. Mice harboring certain mutations in this gene exhibit severe chondrodysplasia characterized by short limbs and trunk, craniofacial deformities and cleft palate. A complete lack of the encoded protein in mice results in postnatal lethality. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.2 kDa Accurate Molecular Mass: 35 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	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Col2a1 collagen, type II, alpha 1 [Mus musculus (house mouse)]
Official Symbol	Col2a1
Synonyms	Col2a1; collagen, type II, alpha 1; Dmm; Lpk; Col2; Del1; Col2a; Col2a-1; M100413; Rgsc413; Rgsc856; collagen alpha-1(II) chain; alpha-1 type II collagen; chondrocalcin; procollagen, type II, alpha 1
Gene ID	12824
mRNA Refseq	NM_031163
Protein Refseq	NP_112440
UniProt ID	P28481

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