

Recombinant Mouse Col2a1 protein, His-tagged

Cat. No. Col2a1-7924M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Col2a1 aa. (Gly677~Ala817 (Accession # P28481)) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Gly677~Ala817
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	19kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 6.3.
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, 0.05% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

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; Rgsc856; collagen alpha-1(II) chain; alpha-1 type II collagen; chondrocalcin; procollagen, type II, alpha 1
Gene ID	12824
mRNA Refseq	NM_001113515.2

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Protein Refseq	NP_001106987.2
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UniProt ID	P28481
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