

Recombinant Mouse Col2a1 protein, His-tagged

Cat. No. Col2a1-36M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Col2a1 fused with His tag was expressed in HEK293.
Species	Mouse
Source	HEK293
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	Tris-based buffer, 50% glycerol
Purity	>90% (SDS-PAGE)
Storage	Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade. Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

GENE INFORMATION

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Gene Name	Col2a1 collagen, type II, alpha 1 [Mus musculus]
Official Symbol	Col2a1
Synonyms	COL2A1; collagen, type II, alpha 1; collagen alpha-1(II) chain; chondrocalcin; alpha-1 type II collagen; disproportionate micromelia; procollagen, type II, alpha 1; Dmm; Col2; Del1; Col2a; Col2a-1; M100856; Rgsc856; MGC90638;
Gene ID	12824
mRNA Refseq	NM_001113515
Protein Refseq	NP_001106987
MIM	
UniProt ID	P28481
Chromosome Location	15 F1; 15 53.97 cM
Pathway	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem;
Function	extracellular matrix structural constituent; platelet-derived growth factor binding;