Recombinant Mouse Col1a1 protein, His-tagged

Cat. No. Col1a1-08M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Col1a1 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 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	Tris-based buffer, 50% glycerol
Purity	>90% (SDS-PAGE)
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade.

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GENE INFORMATION

Gene Name	Col1a1 collagen, type I, alpha 1 [Mus musculus]
Official Symbol	Col1a1
Synonyms	COL1A1; collagen, type I, alpha 1; collagen alpha-1(I) chain; alpha-1 type 1 collagen; alpha-1 type I collagen; procollagen, type I, alpha 1; Cola1; Mov13; Cola-1; Mov-13; Col1a-1;
Gene ID	12842
mRNA Refseq	NM_007742
Protein Refseq	NP_031768
MIM	
UniProt ID	P11087
Chromosome Location	11 59.01 cM; 11 D
Pathway	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Axon guidance, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem;
Function	extracellular matrix structural constituent; identical protein binding; platelet-derived growth factor binding; protein binding;

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