

Native Mouse Col1a1 Protein

Cat. No. Col1a1-7174M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Collagens were extracted from washed dissected tissue into dilute acetic acid after mild pepsin treatment. Collagen type I was purified by using differential salt precipitation. Thermal denaturation converts the collagen to gelatin.
Species	Mouse
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	Liquid
Purity	> 90 % pure by SDS PAGE. Cross linked collagen type I dimers and trimers represent approximately 10%.
Applications	ELISA
Stability	Shelf life: one year from despatch.
Storage	Store the antigen undiluted at -20 centigrade only. Avoid repeated freezing and

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thawing.

Concentration 1.0 mg/mL

Storage Buffer 0.5 M Acetic Acid without additives.

GENE INFORMATION

Gene Name Col1a1 collagen, type I, alpha 1 [Mus musculus (house mouse)]

Official Symbol Col1a1

Synonyms

Col1a1; collagen, type I, alpha 1; Co; Col; Col1; Mov-; 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

UniProt ID P11087

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