

Product datasheet for BA143

Collagen type I (Tail Tendon) Mouse Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Collagen type I (Tail Tendon) mouse protein, 0.5 mg
Species:	Mouse
Concentration:	lot specific
Purity:	>90% pure by SDS PAGE. Cross linked collagen type I dimers and trimers represent approximately 10%.
Buffer:	State: Liquid purified protein. Buffer System: 0.5M Acetic Acid without additives. Preservative: None Stabilizer: None
Preparation:	Liquid purified protein.
Applications:	ELISA.
Protein Description:	Preparation: 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.
Note:	Impurities: Mouse Collagen type III 10% Mouse collagen (other types) < 1% Non-collagenous proteins < 0.5%.
Storage:	Store the antigen undiluted at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_031768
Locus ID:	12842
UniProt ID:	P11087
Cytogenetics:	11 D
Synonyms:	Co; Col; Col1; Col1a-1; Cola-1; Cola1; Mov-; Mov-13; Mov13



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Summary:

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. [provided by RefSeq, Nov 2015]