Recombinant Mouse Collagen α-1(III) Chain/COL3A1 Protein (His Tag)

Catalog No. PKSM040988

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Synonyms	Collagen alpha-1(III) chain;Col3a1
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Gln155-Gly1219
Accession	P08121
Calculated Molecular Weight	96.6 kDa
Observed molecular weight	130 kDa
Tag	C-His
Bioactivity	Not validated for activity
Properties	
Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Storage	Store at $< -20^{\circ}$ C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at $< -20^{\circ}$ C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM HAc-NaAc, 150mM NaCl, pH 4.5.
Reconstitution	Not Applicable
Data	

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Collagen alpha-1(III) chain (Col3a1) is a secreted protein and belongs to the fibrillar collagen family. It contains 1 fibrillar collagen NC1 domain and 1 VWFC domain. Collagen alpha-1(III) chain is a fibrillar collagen that is found in extensible connective tissues such as skin, lung, and the vascular system, frequently in association with type I collagen. The COL3A1 gene produces the components of type III collagen, called pro-alpha1(III) chains. Three copies of this chain combine to make a molecule of type III procollagen. These triple-stranded, rope-like procollagen molecules must be processed by enzymes outside the cell to remove extra protein segments from their ends. Once these molecules are processed, the

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collagen molecules arrange themselves into long, thin fibrils. Within these fibrils, the individual collagen molecules are cross-linked to one another. These cross-links result in the formation of very strong mature type III collagen fibrils, which are found in the spaces around cells.

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