

Recombinant Rat Col3a1 Protein, His-tagged

Cat. No. Col3a1-1280R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Col3a1 Protein (Asp1219-Leu1463) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Asp1219-Leu1463
Description	Predicted to enable several functions, including integrin binding activity; platelet-derived growth factor binding activity; and protease binding activity. Predicted to be an extracellular matrix structural constituent. Involved in response to mechanical stimulus and skeletal system development. Located in collagen-containing extracellular matrix. Biomarker of bladder neck obstruction; glomerulosclerosis; myocardial infarction; and type 2 diabetes mellitus. Human ortholog(s) of this gene implicated in Ehlers-Danlos syndrome; Ehlers-Danlos syndrome hypermobility type; end stage renal disease; and vascular type Ehlers-Danlos syndrome. Orthologous to human COL3A1 (collagen type III alpha 1 chain).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.2 kDa Accurate Molecular Mass: 34&26 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Col3a1 collagen type III alpha 1 chain [Rattus norvegicus (Norway rat)]
Official Symbol	Col3a1
Synonyms	Col3a1; collagen type III alpha 1 chain; collagen alpha-1(III) chain; collagen, type III, alpha 1; procollagen, type III, alpha 1
Gene ID	84032
mRNA Refseq	NM_032085
Protein Refseq	NP_114474
UniProt ID	P13941

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