

## Recombinant Rat Col3a1 Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Col3a1 Protein (Asp1219-Leu1463) with N-His tag was expressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	Asp1219-Leu1463
<b>Description</b>	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).
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 31.2 kDa Accurate Molecular Mass: 34&26 kDa
<b>Purity</b>	> 90%

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<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in PBS or others.

## GENE INFORMATION

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

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