

Active Recombinant Human COL15A1 Protein, HA-tagged

Cat. No. COL15A1-06H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human COL15A1 (Asn1133-Ser1381) protein with a Hemagglutinin Tag (YPYDVDPDYA) was expressed in HEK293 cell.
Species	Human
Source	HEK293
ProteinLength	1133-1381 a.a.
Description	This gene encodes the alpha chain of type XV collagen, a member of the FACIT collagen family (fibril-associated collagens with interrupted helices). Type XV collagen has a wide tissue distribution but the strongest expression is localized to basement membrane zones so it may function to adhere basement membranes to underlying connective tissue stroma. The proteolytically produced C-terminal fragment of type XV collagen is restin, a potentially antiangiogenic protein that is closely related to endostatin. Mouse studies have shown that collagen XV deficiency is associated with muscle and microvessel deterioration.
Form	Noncovalently-linked homotrimer
Bio-activity	Measured by its ability to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons. Recombinant Human Collagen XV alpha 1/COL15A1, immobilized at 0.5 µg/mL, is able to significantly enhance neurite outgrowth.
Molecular Mass	29 kDa

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N-terminal Sequence Analysis	Tyr
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 500 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	COL15A1 collagen type XV alpha 1 chain [Homo sapiens (human)]
Official Symbol	COL15A1
Synonyms	COL15A1; collagen type XV alpha 1 chain; collagen alpha-1(XV) chain; collagen XV, alpha-1 polypeptide; collagen type XV proteoglycan; collagen, type XV, alpha 1; endostatin-XV; restin
Gene ID	1306

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mRNA Refseq	NM_001855
Protein Refseq	NP_001846
MIM	120325
UniProt ID	P39059

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