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Recombinant Human Collagen XV alpha 1/COL15A1 (S1195F) protein

Catalog No.: RP01851 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	1306	P39059

Tags
N-His□hFc

Synonyms
COL15A1;Collagen alpha-1(XV) chain; Restin

Product Information

Source	Purification
HEK293 cells	≥ 90% as determined by reducing SDS-PAGE.

Calculated MW	Observed MW
63.55 KDa	60-65 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Collagen XV alpha 1/COL15A1 is a structural protein crucial for stabilizing microvessels and muscle cells, playing a key role in cardiac and skeletal muscle tissues. Its structural support contributes to microvascular and muscle integrity. Additionally, COL15A1 exhibits a potent anti-angiogenic effect, inhibiting angiogenesis and suggesting its role in regulating blood vessel formation.

Basic Information

Description
Recombinant Human Collagen XV alpha 1/COL15A1 (S1195F) protein is produced by HEK293 cells system. The target protein is expressed with sequence (Asn1133-Ser1381) of Human Collagen XV alpha 1/COL15A1 (S1195F)(Accession #NP_001846.3) fused with His and hFc tag at the N-Terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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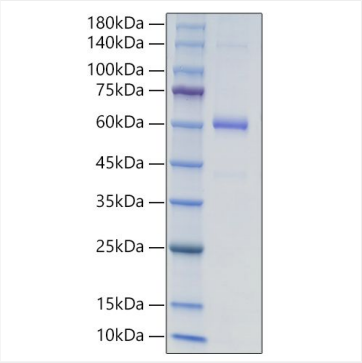
Validation Data



Recombinant Human Collagen XV alpha 1/COL15A1 (S1195F) protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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