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Recombinant Human LRG1 Protein

Catalog No.: RP02953 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	116844	P02750

Tags
C-His

Synonyms
LRG1; LRG□ Leucine-rich alpha-2-glycoprotein; LRG

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
35.4 kDa	45-60 kDa

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

Formulation
Supplied as 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.

Contact

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Background

LRG1 is a Protein Coding gene. LRG1 belongs to the leucine-rich repeat (LRR) family. Members of this family are involved in protein-protein interaction, signal transduction, and cell adhesion and development. LRG1 is expressed during granulocyte differentiation. It contains 4 LIM zinc-binding domains and 1 Rho-GAP domain. LRG1 is involved in promoting neovascularization (new blood vessel growth) by causing a switch in transforming growth factor-beta (TGFbeta) signaling in endothelial cells. LRG1 binds to the accessory receptor endoglin and promotes signaling via the ALK1-Smad1/5/8 pathway. It may be a potential therapeutic target for the treatment of diseases where there is aberrant neovascularization. Diseases associated with LRG1 include Appendicitis and Normal Pressure Hydrocephalus.

Basic Information

Description
Recombinant Human LRG1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Vla36-Gln347) of Human LRG1 fused with His tag at the C-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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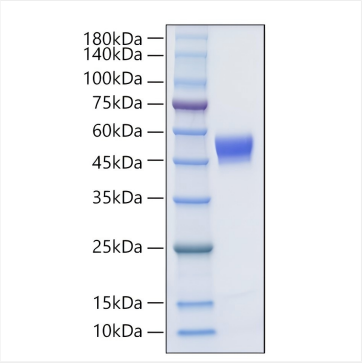
Validation Data



Recombinant Human LRG1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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