

Human LRG1 Protein

Cat. No. LRG-HM101



Description

Source	Recombinant Human LRG1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val36-Gln347.
Accession	P02750
Molecular Weight	The protein has a predicted MW of 35.4 kDa. Due to glycosylation, the protein migrates to 48-52 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

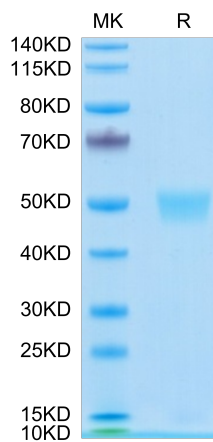
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Diabetic nephropathy (DN) is an important public health concern of increasing proportions and the leading cause of end-stage renal disease (ESRD) in diabetic patients. It is one of the most common long-term microvascular complications of diabetes mellitus that is characterized by proteinuria and glomerular structural changes. LRG1 is a novel pro-angiogenic factors involved in the abnormal angiogenesis and renal fibrosis in DN.

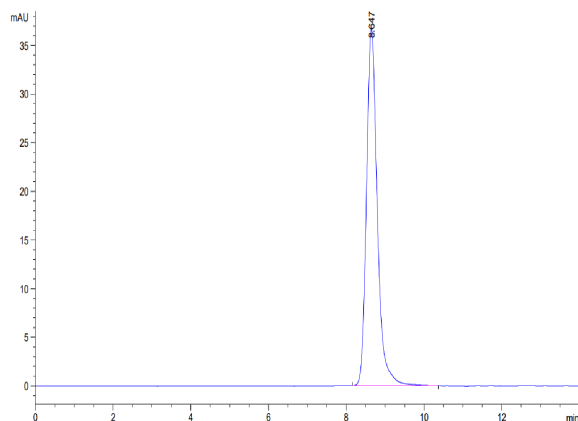
Assay Data

Bis-Tris PAGE



Human LRG1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



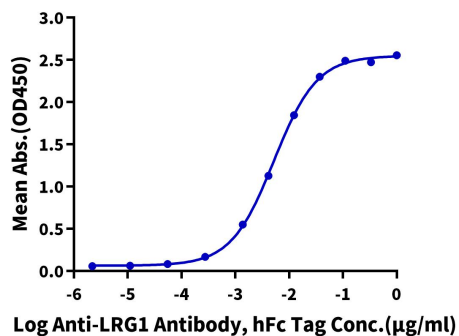
The purity of Human LRG1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human LRG1, His Tag ELISA

0.05µg Human LRG1, His Tag Per Well



Immobilized Human LRG1, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-LRG1 Antibody, hFc Tag with the EC50 of 5.2ng/ml determined by ELISA(QC Test).