

Biotinylated Human LRP-1 / cluster III Protein, His,Avitag™ (MALs & BLI verified)

Catalog # LR1-H82E3



Synonyms

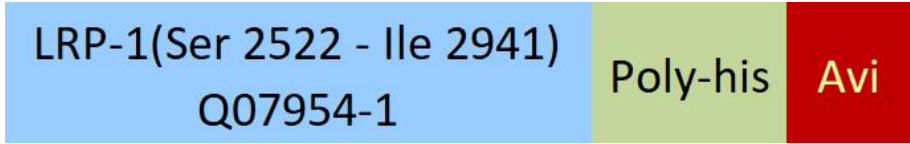
A2MR, APOER, APR, CD91, IGFBP-3R, IGFBP3R, IGFBP3R1, KPA, LRP, LRP1A, TGFBR5

Source

Biotinylated Human cluster III Protein, His,Avitag (LR1-H82E3) is expressed from human 293 cells (HEK293). It contains AA Ser 2522 - Ile 2941 (Accession # [Q07954-1](#)).

Predicted N-terminus: Ser 2522

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 49.8 kDa. The protein migrates as 60-90 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

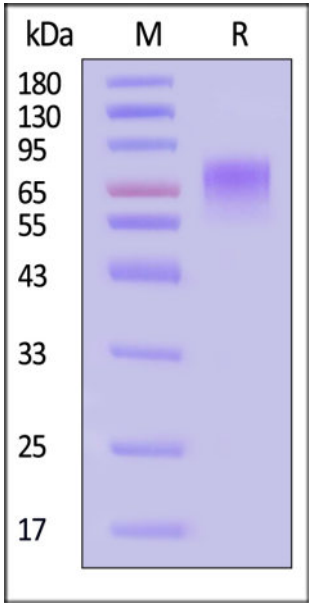
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

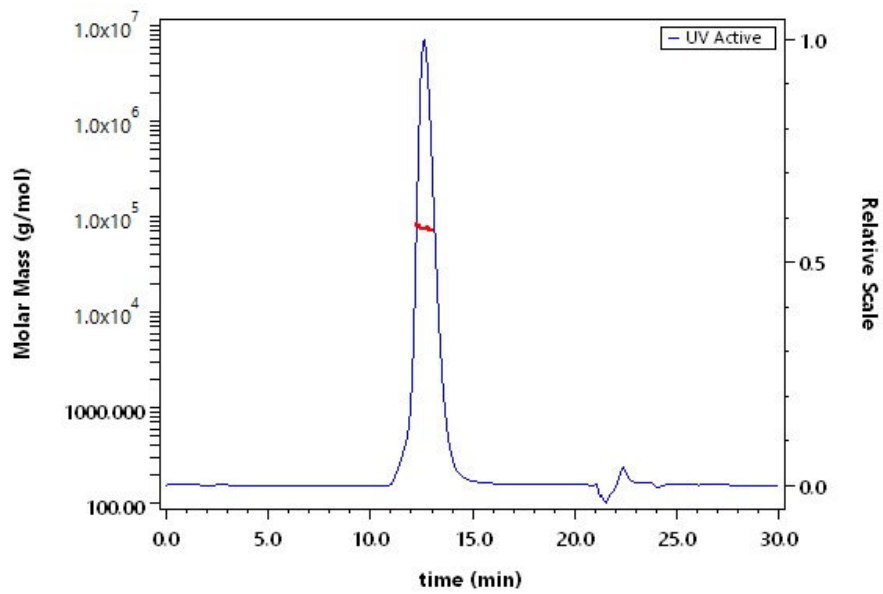
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



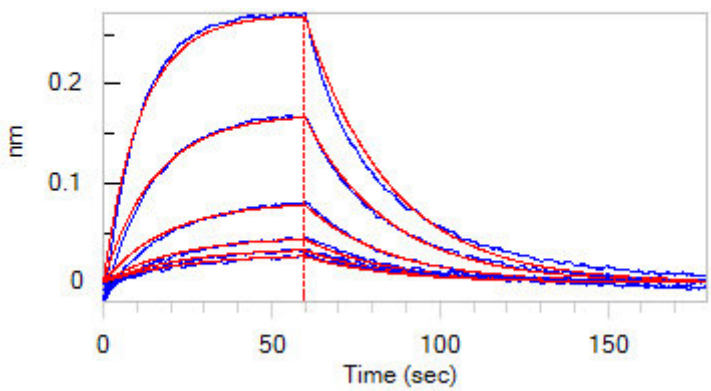
Biotinylated Human cluster III Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Human cluster III Protein, His,Avitag (Cat. No. LR1-H82E3) is more than 95% and the molecular weight of this protein is around 55-80 kDa verified by SEC-MALS.

Bioactivity-BLI



Loaded Biotinylated Human cluster III Protein, His,Avitag (Cat. No. LR1-H82E3) on SA Biosensor, can bind Human PDGF-BB, premium grade (Cat. No. PDB-H4112) with an affinity constant of 0.168 μ M as determined in BLI assay (ForteBio Octet R8) (QC tested).

Background

LRP-1 Cluster III, spanning residues 2462 to 2925, contains ten cysteine-rich complement-type repeats. Positioned within the middle region of the extracellular alpha-chain, it is isolated by flanking EGF-like domains. While it displays significantly lower ligand-binding activity compared to Clusters II and IV, it selectively interacts with unique targets like ADAMTS-5.



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