

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

Catalog # LR1-H82E4



Synonyms

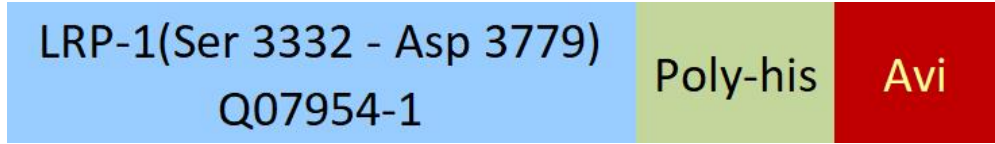
A2MR, APOER, APR, CD91, IGFBP-3R, IGFBP3R, IGFBP3R1, KPA, LRP, LRP1A, TGFBR5

Source

Biotinylated Human cluster IV Protein, His,Avitag (LR1-H82E4) is expressed from human 293 cells (HEK293). It contains AA Ser 3332 - Asp 3779 (Accession # [Q07954-1](#)).

Predicted N-terminus: Ser 3332

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 53.7 kDa. The protein migrates as 60 kDa and 65-90 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

>90% as determined by SDS-PAGE.

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.

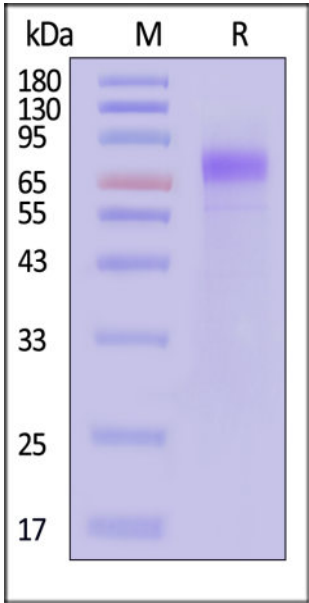
This product is stable after storage at:

- -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

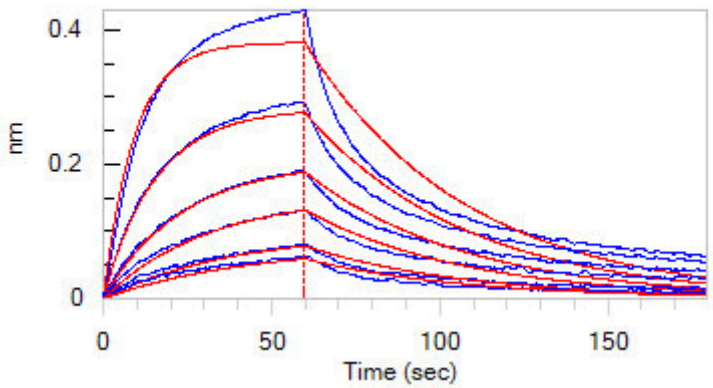
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Biotinylated Human cluster IV 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 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-BLI



Loaded Biotinylated Human cluster IV Protein, His,Avitag (Cat. No. LR1-H82E4) on SA Biosensor, can bind Human PDGF-BB, premium grade (Cat. No. PDB-H4112) with an affinity constant of 48.3 nM as determined in BLI assay (ForteBio Octet R8) (QC tested).

Background

LRP-1 Cluster IV, spanning residues 3300 to 3780, contains eleven cysteine-rich complement-type repeats near the extracellular membrane-proximal base. As a primary ligand-binding hub, it drives the clearance of diverse macromolecules like ApoE and Tau, making it a critical focus for drug delivery and blood-brain barrier transport research.



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