Biotinylated Human IL-22 R alpha 1 Superstable Mutant Protein, His,Avitag™ (HPLC verified)

Catalog # IL1-H82E5

Synonym

Interleukin-22 receptor subunit alpha-1, IL-22 receptor subunit alpha-1, IL-22R-alpha-1, IL-22RA1, Cytokine receptor class-II member 9, Cytokine receptor family 2 member 9, CRF2-9, ZcytoR11, IL22RA1 , IL22R

Source

Biotinylated Human IL-22 R alpha 1 Superstable Mutant Protein, His,Avitag (IL1-H82E5) is expressed from human 293 cells (HEK293). It contains AA Pro 18 - Thr 228 (Accession # Q8N6P7).

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 27.8 kDa. The protein migrates as 35 kDa and 37-41 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-HPLC.

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.

Storage

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

Please avoid repeated freeze-thaw cycles.

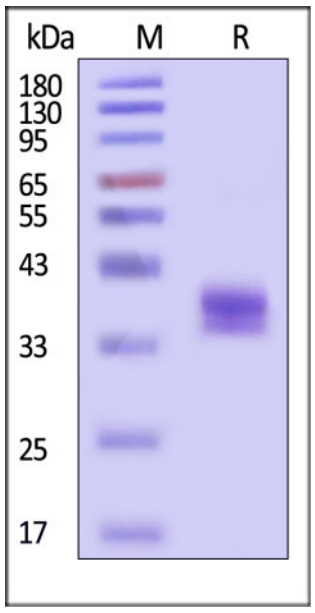
This product is stable after storage at:

- -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

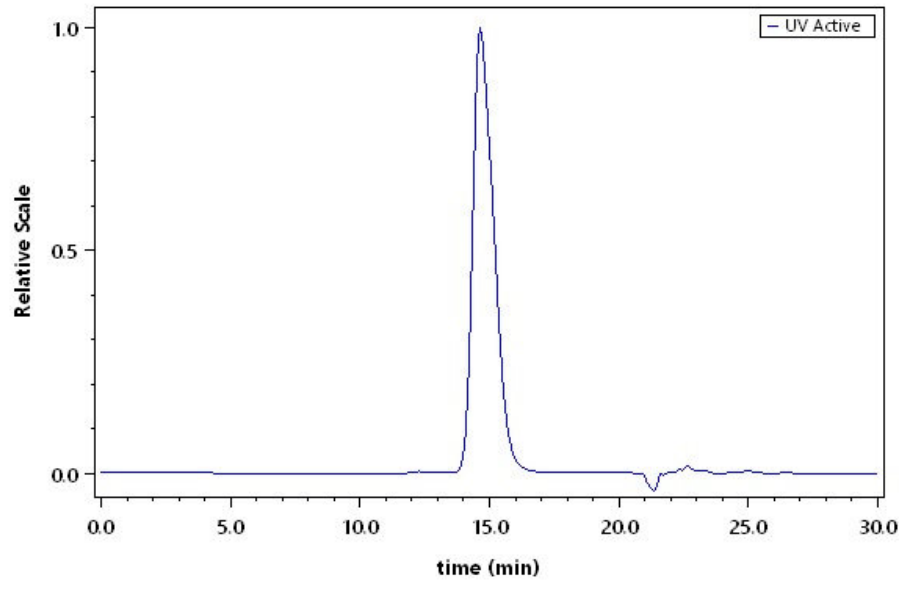
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



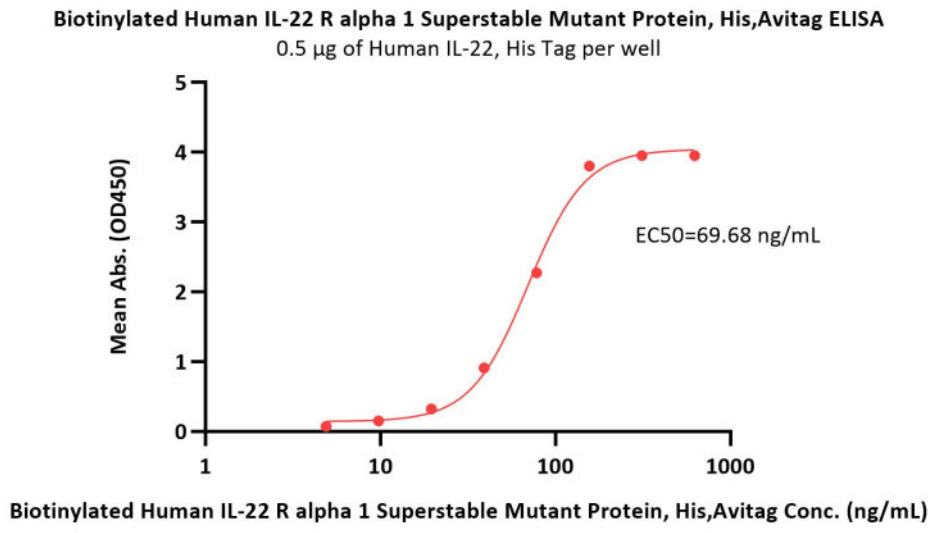
Biotinylated Human IL-22 R alpha 1 Superstable Mutant Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-HPLC

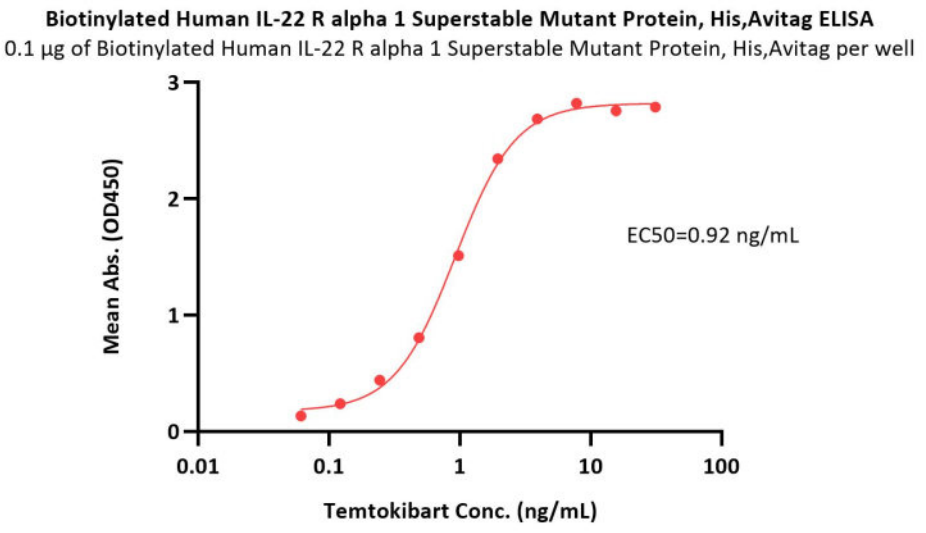


The purity of Biotinylated Human IL-22 R alpha 1 Superstable Mutant Protein, His,Avitag (Cat. No. IL1-H82E5) was greater than 95% as determined by SEC-HPLC.

Bioactivity-ELISA



Immobilized Human IL-22, His Tag (Cat. No. IL2-H524a) at 5 μg/mL (100 μL/well) can bind Biotinylated Human IL-22 R alpha 1 Superstable Mutant Protein, His,Avitag (Cat. No. IL1-H82E5) with a linear range of 5-156 ng/mL (QC tested).



Immobilized Biotinylated Human IL-22 R alpha 1 Superstable Mutant Protein, His,Avitag (Cat. No. IL1-H82E5) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Temtokibart with a linear range of 0.06-2 ng/mL (Routinely tested).

Background

Interleukin-22 receptor subunit alpha-1(IL22RA1) is a component of the receptor for IL20, IL22 and IL24.Component of IL22 receptor formed by IL22RA1 and IL10RB enabling IL22 signaling via JAK/STAT pathways. IL22 also induces activation of MAPK1/MAPK3 and Akt kinases pathways. Component of one of the receptor for IL20 and IL24 formed by IL22RA1 and IL20RB also signaling through STATs activation. Mediates IL24 antiangiogenic activity as well as IL24 inhibitory effect on endothelial cell tube formation and differentiation.