Biotinylated Human TNFR1 / CD120a / TNFRSF1A (30-211) Protein, His,Avitag™ (MALS verified)

Catalog # TN1-H82E6

Synonyms

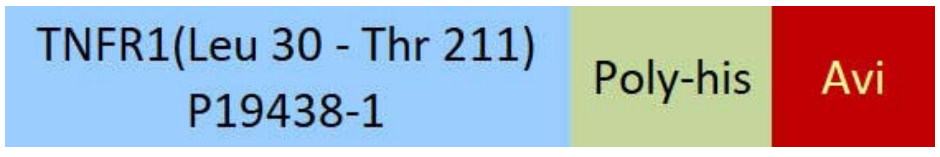
TNFR1, CD120a, TNFRSF1A, FPF, TBP1, TNF-R, TNF-R-I, TNF-R55, TNFAR, TNFR55, TNFR60, p55, p60

Source

Biotinylated Human TNFR1 (30-211) Protein, His,Avitag (TN1-H82E6) is expressed from human 293 cells (HEK293). It contains AA Leu 30 - Thr 211 (Accession # P19438-1).

Predicted N-terminus: Leu 30

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 24 kDa. The protein migrates as 33-40 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

Biotin-labeled

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

0.7-1.0 as determined by the SABA assay / 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.

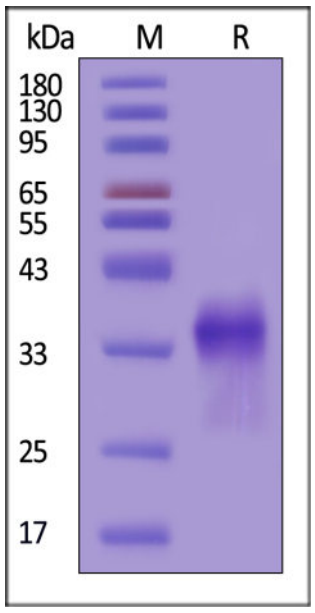
This product is stable after storage at:

- -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

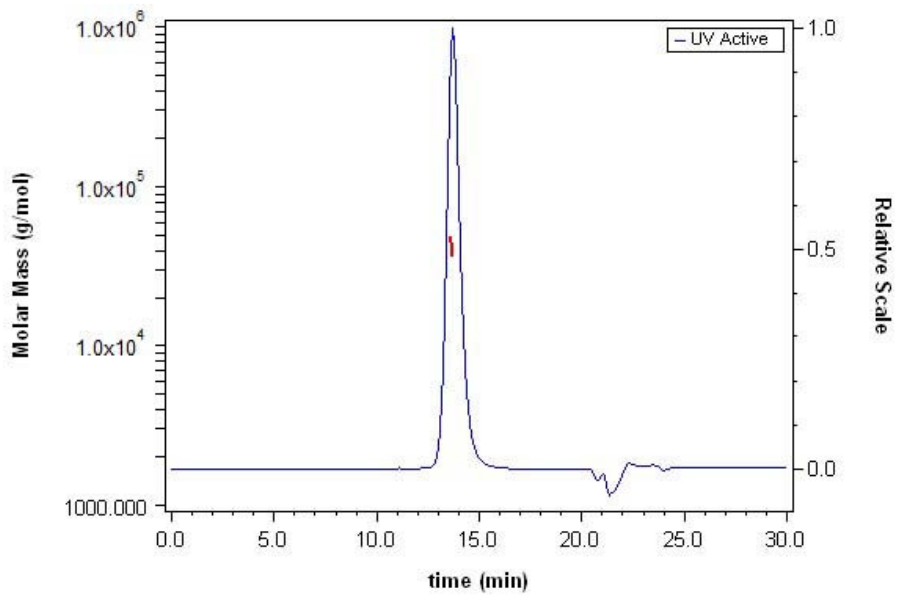
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



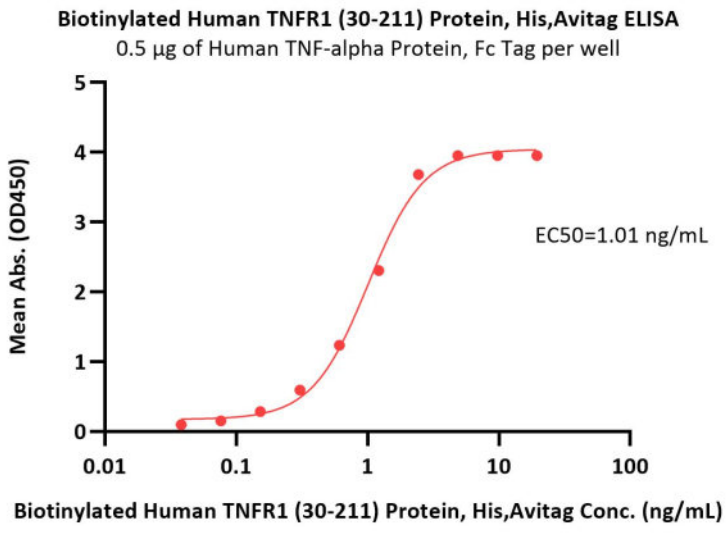
Biotinylated Human TNFR1 (30-211) Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Biotinylated Human TNFR1 (30-211) Protein, His,Avitag (Cat. No. TN1-H82E6) is more than 95% and the molecular weight of this protein is around 30-45 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human TNF-alpha Protein, Fc Tag (Cat. No. TNA-H5255) at 5 μg/mL (100 μL/well) can bind Biotinylated Human TNFR1 (30-211) Protein, His,Avitag (Cat. No. TN1-H82E6) with a linear range of 0.04-2 ng/mL (QC tested).

Background

Tumor necrosis factor receptor 1 (TNF-R1) is also known as tumor necrosis factor receptor superfamily member 1A (TNFRSF1A), TNFAR, CD antigen CD120a, which belongs to the tumor necrosis factor receptor superfamily. TNF-R1 contains one death domain and four TNFR-Cys repeats. TNF-R1 is the receptor of TNFSF2/TNF-alpha and homotrimeric TNFSF1/lymphotoxin-alpha. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. TNF-R1 contributes to the induction of non-cytocidal TNF effects including anti-viral state and activation of the acid sphingomyelinase. Defects in TNFRSF1A are the cause of familial Hibernian fever (FHF).

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