

Synonym

CD27,TNFRSF7,S152,T14,Tp55

Source

Biotinylated Human CD27, Fc,Avitag(TN7-H82F6) is expressed from human 293 cells (HEK293). It contains AA Thr 21 - Ile 192 (Accession # [NP_001233](#)). Predicted N-terminus: Thr 21

Molecular Characterization



This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 47.7 kDa. The protein migrates as 55-70 kDa 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.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 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

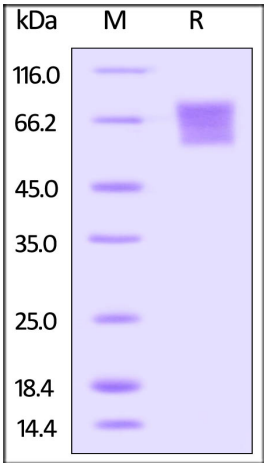
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

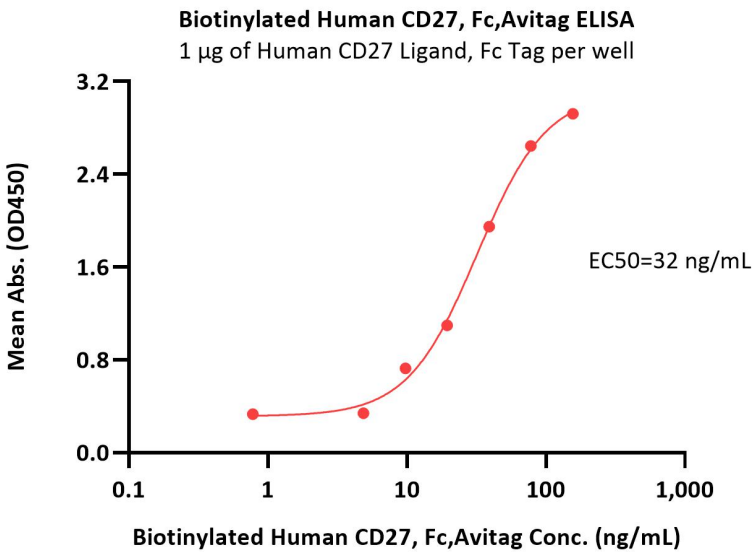
SDS-PAGE



Biotinylated Human CD27, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

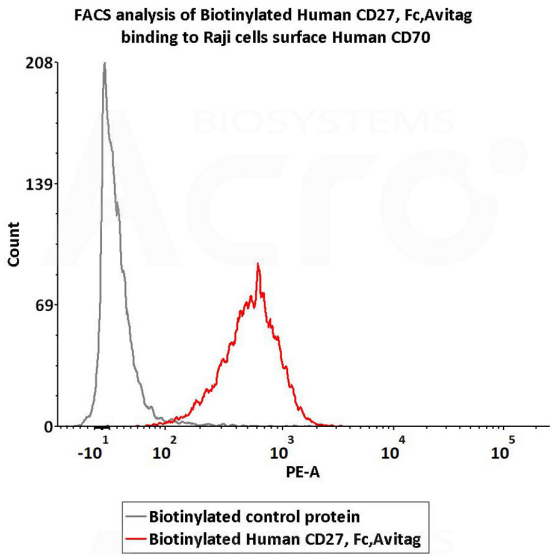
Bioactivity-ELISA





Immobilized Human CD27 Ligand, Fc Tag at 10 µg/mL (100 µL/well) can bind Biotinylated Human CD27, Fc,Avitag (Cat. No. TN7-H82F6) with a linear range of 2-78 ng/mL (QC tested).

Bioactivity-FACS



Flow Cytometry assay shows that Biotinylated Human CD27, Fc,Avitag (Cat. No. TN7-H82F6) can bind to Raji cells Surface Human CD70. The concentration of CD27 used is 10 µg/mL (Routinely tested).

Background

CD Antigen CD27 is also known as Tumor necrosis factor receptor superfamily member 7 (TNFRSF7), which belongs to TNF-receptor superfamily. CD27 / TNFRSF7 is found in most T-lymphocytes. CD27 / TNFRSF7 is required for generation and long-term maintenance of T cell immunity. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis. This receptor transduces signals that lead to the activation of NF-κB and MAPK8/JNK. CD27 has been shown to interact with SIVA1, TRAF2 and TRAF3.

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