

**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**

CD27(Thr 21 - Ile 192) NP_001233	Fc(Pro 100 - Lys 330) P01857	Avi
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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.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**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.*

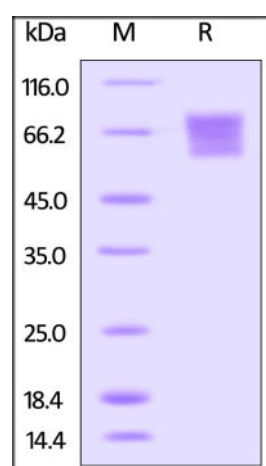
**Storage**

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.

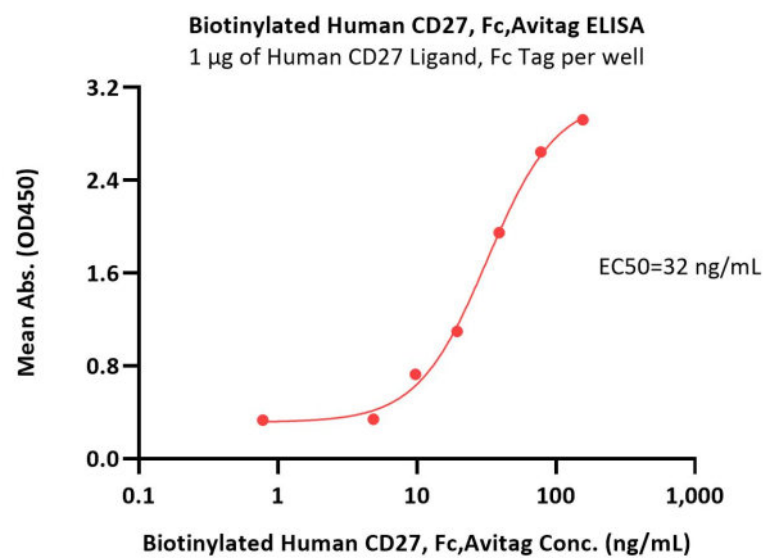
**SDS-PAGE**

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**

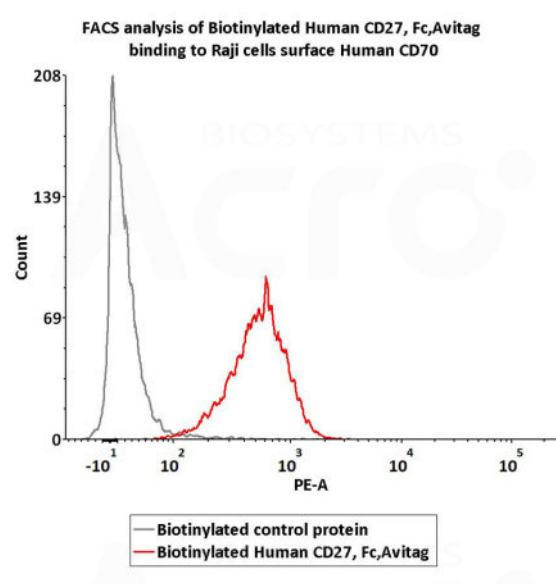
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and more!





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.

### Clinical and Translational Updates

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