



### Synonym

CD27, TNFRSF7, S152, T14, Tp55

### Source

Human CD27, Fc Tag (CD7-H5254) 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)	Fc(Pro 100 - Lys 330)
NP_001233	P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 45.9 kDa. The protein migrates as 55-60 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

### Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 100 mM Glycine, 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

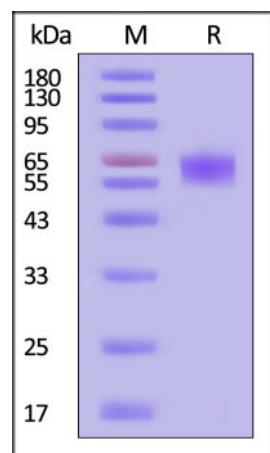
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

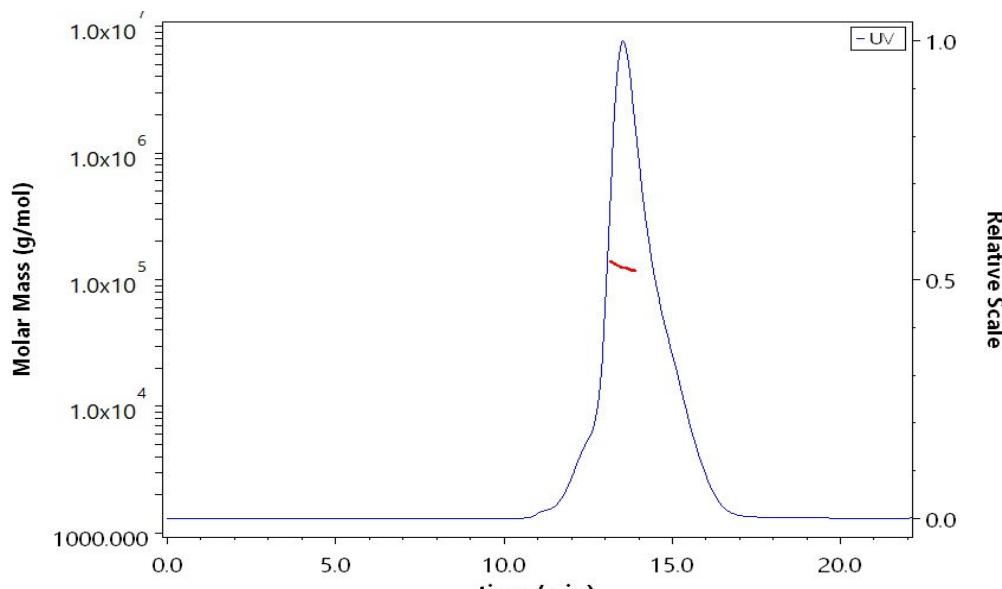
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE



Human CD27, Fc Tag 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 Human CD27, Fc Tag (Cat. No. CD7-H5254) is more than 90% and the molecular weight of this protein is around 110-140 kDa verified by SEC-MALS.

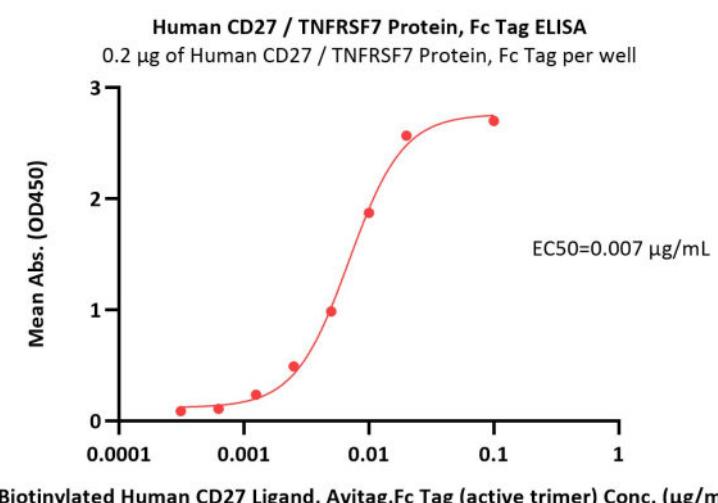
[Report](#)

### Bioactivity-ELISA

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and more!

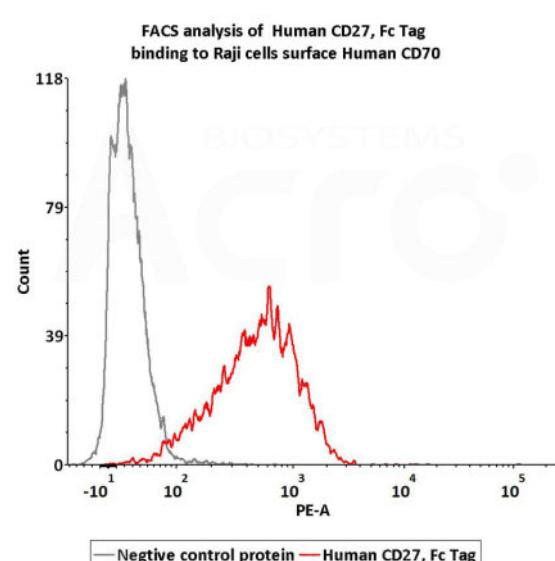


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Immobilized Human CD27, Fc Tag (Cat. No. CD7-H5254) at 2 µg/mL (100 µL/well) can bind Biotinylated Human CD27 Ligand, Avitag, Fc Tag (active trimer) with a linear range of 0.001-0.02 µg/mL (QC tested).

### Bioactivity-FACS



Flow Cytometry assay shows that Human CD27, Fc Tag (Cat. No. CD7-H5254) can bind to Raji cells Surface Human CD70. The concentration of CD27 used is 1 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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