



## Synonym

CD27, TNFRSF7, S152, T14, Tp55

## Source

Human CD27 Protein, Mouse IgG2a Fc Tag (CD7-H5257) is expressed from human 293 cells (HEK293). It contains AA Thr 21 - Ile 192 (Accession # [P26842-1](#)).

Predicted N-terminus: Thr 21

## Molecular Characterization

CD27(Thr 21 - Ile 192) P26842-1	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 46.2 kDa. The protein migrates as 55-75 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 0.1 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 150 mM 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

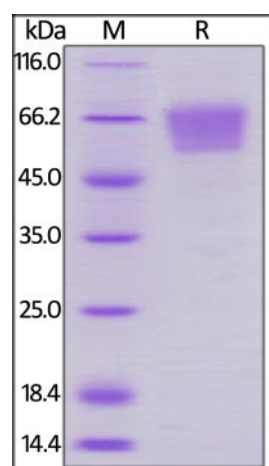
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

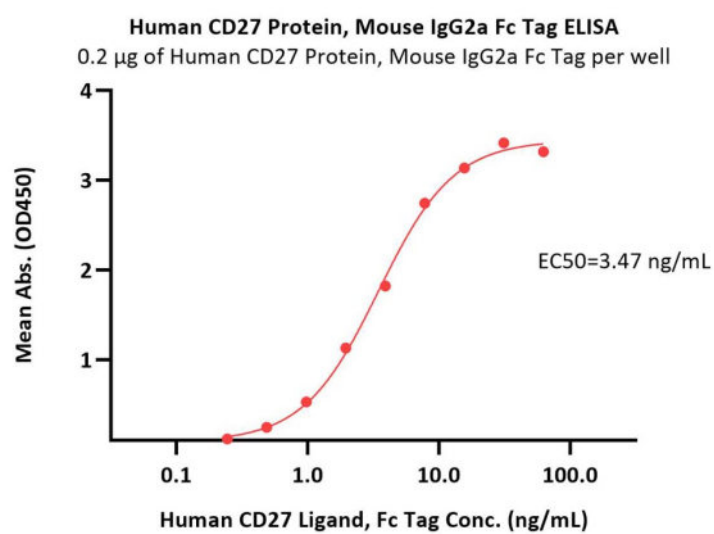


Human CD27 Protein, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

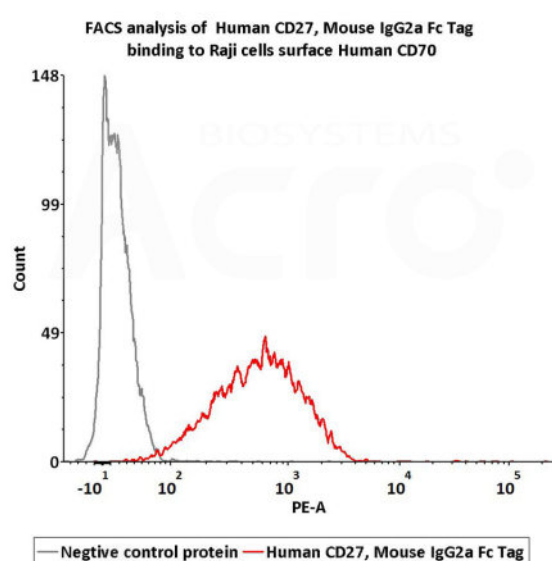
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Immobilized Human CD27 Protein, Mouse IgG2a Fc Tag (Cat. No. CD7-H5257) at 2 µg/mL (100 µL/well) can bind Human CD27 Ligand Protein, Fc Tag with a linear range of 0.2-4 ng/mL (QC tested).

### Bioactivity-FACS



Flow Cytometry assay shows that Human CD27 Protein, Mouse IgG2a Fc Tag (Cat. No. CD7-H5257) 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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