



Synonym

CD27, TNFRSF7, S152, T14, Tp55

Source

Mouse CD27 Protein, Mouse IgG2a Fc Tag(CD7-M5252) is expressed from human 293 cells (HEK293). It contains AA Thr 21 - Arg 182 (Accession # [P41272-1](#)).

Predicted N-terminus: Thr 21

Molecular Characterization

CD27(Thr 21 - Arg 182) P41272-1	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 45.1 kDa. The protein migrates as 55-66 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 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

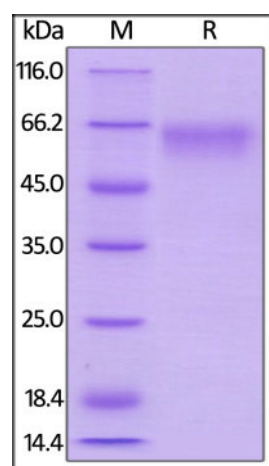
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

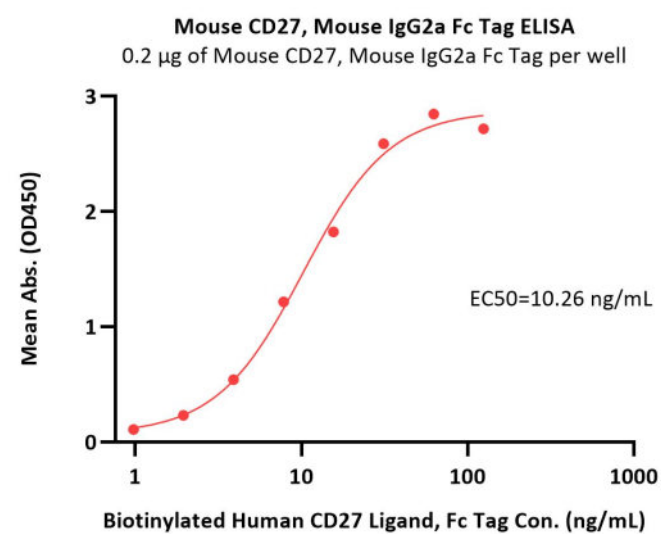
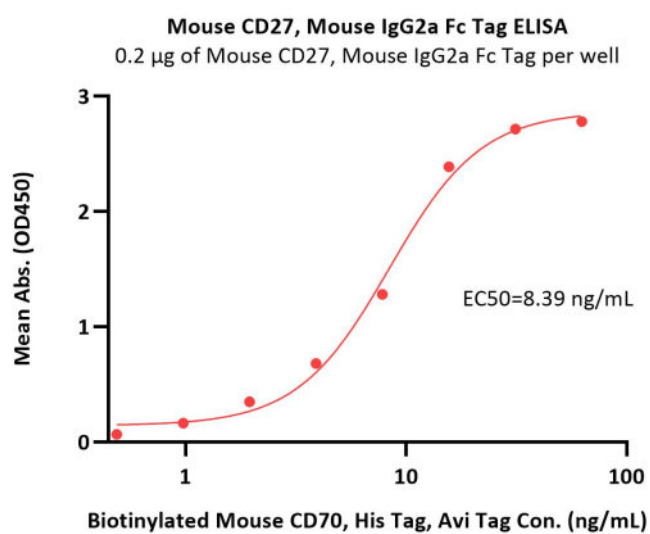


Mouse CD27 Protein, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

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Immobilized Mouse CD27 Protein, Mouse IgG2a Fc Tag (Cat. No. CD7-M5252) at 2 µg/mL (100 µL/well) can bind Biotinylated Mouse CD70, His Tag, Avi Tag with a linear range of 1-16 ng/mL (QC tested).

Immobilized Mouse CD27 Protein, Mouse IgG2a Fc Tag (Cat. No. CD7-M5252) at 2 µg/mL (100 µL/well) can bind Biotinylated Human CD27 Ligand Protein, Fc Tag with a linear range of 1-16 ng/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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