

# Mouse CD27/TNFRSF7 Protein, Ultra Low Endotoxin

Cat. No. CD2-MM327-UL

## Description

<b>Source</b>	Recombinant Mouse CD27/TNFRSF7 Protein is expressed from HEK293 with mFc (IgG1) tag at the C-Terminus. It contains Pro24-Arg182.
<b>Accession</b>	P41272-1
<b>Molecular Weight</b>	The protein has a predicted MW of 44.3 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

CD27, also known as TNFRSF7, is an approximately 55 kDa transmembrane protein in the TNF receptor superfamily. It functions as a costimulatory molecule that supports lymphocyte activation and survival. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis.

## Assay Data

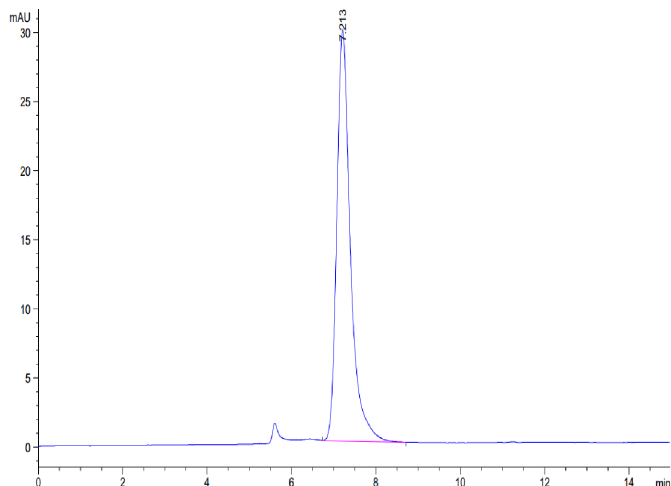
### Bis-Tris PAGE



Mouse CD27 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

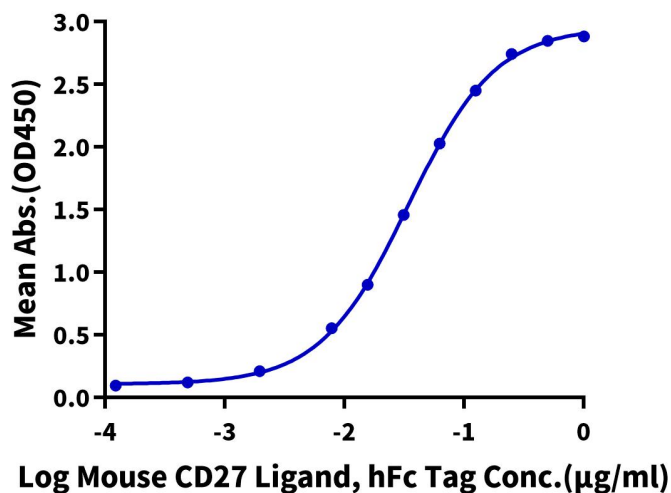


The purity of Mouse CD27 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Mouse CD27, mFc Tag ELISA

0.2µg Mouse CD27, mFc Tag Per Well



Immobilized Mouse CD27, mFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Mouse CD27 Ligand, hFc Tag with the EC50 of 34.0ng/ml determined by ELISA (QC Test).