

**Synonym**

CD27, TNFRSF7, S152, T14, Tp55

**Source**

Rat CD27, His Tag(CD7-R52H9) is expressed from human 293 cells (HEK293).

It contains AA Thr 21- Arg 183 (Accession # [NP\\_001019506.1](#)).

Predicted N-terminus: Thr 21

**Molecular Characterization**

CD27(Thr 21- Arg 183)  
NP\_001019506.1 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 19.8 kDa. The protein migrates as 30-35 kDa and 50-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

&gt;90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

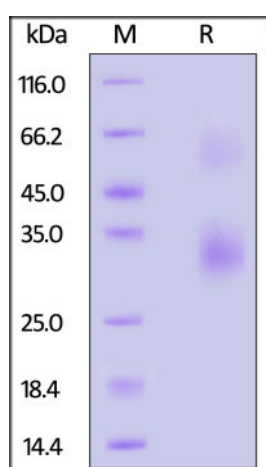
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

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

*Please avoid repeated freeze-thaw cycles.*

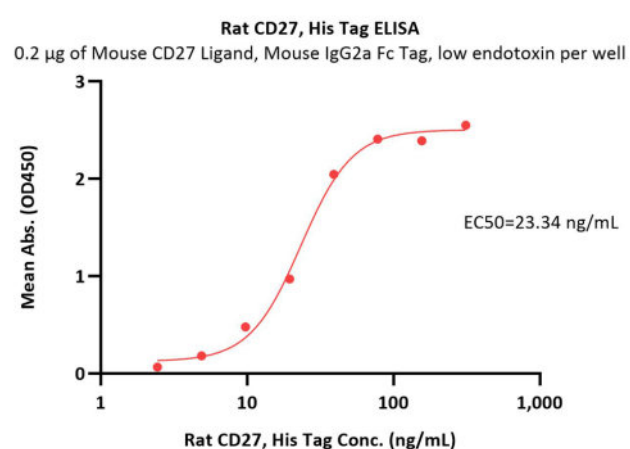
This product is stable after storage at:

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

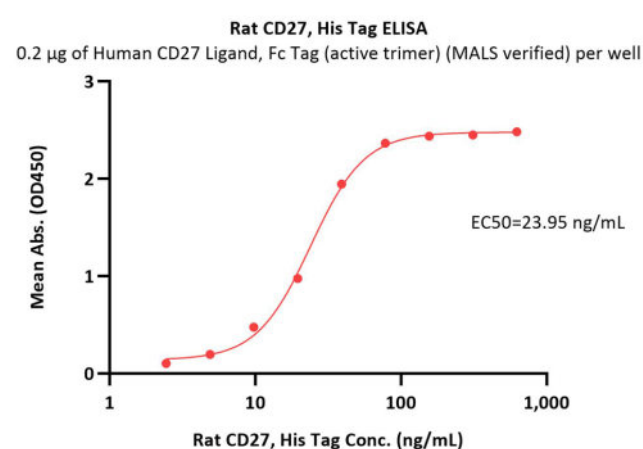
**SDS-PAGE**

Rat CD27, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity-ELISA**



Immobilized Mouse CD27 Ligand, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. CDL-M5251) at 2 µg/mL (100 µL/well) can bind Rat CD27, His Tag (Cat. No. CD7-R52H9) with a linear range of 2-39 ng/mL (QC tested).



Immobilized Human CD27 Ligand, Fc Tag (active trimer) (MALS verified) (Cat. No. CDL-H5266) at 2 µg/mL (100 µL/well) can bind Rat CD27, His Tag (Cat. No. CD7-R52H9) with a linear range of 2-78 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

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.