

Recombinant Human TNFRSF7/CD27 Protein

Catalog No.: RP01358 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	939	P26842

Tags

C-hFc&His

Synonyms

CD27;S152;S152.
LPFS2;T14;TNFRSF7;Tp55;S152.LPFS2;
S152. LPFS2; T14; TNFRSF7; Tp55

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
46.04 kDa	60-70 kDa

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

CD27, also known as TNFRSF7, is a member of the TNF-receptor superfamily limited to cells of the lymphoid lineage, and exists as both a dimeric glycoprotein on the cell surface and as a soluble protein in serum. As a type I transmembrane glycoprotein of about 55 kDa existing as disulfide-linked homodimer, CD27 has been shown to play roles in lymphoid proliferation, differentiation, and apoptosis. It has an important role in the generation of T cell immunity and is an robust marker for normal memory B cells. It is a T and B cell co-stimulatory molecule, the activity of CD27 is governed by its TNF-like ligand CD70 on lymphocytes and dendritic cells. The CD27-CD70 interaction is required for Th1 generation responses to differentiation signals and long-term maintenance of T cell immunity, and meanwhile, plays a key role in regulating B-cell differentiation, activation and immunoglobulin synthesis.

Basic Information

Description

Recombinant Human TNFRSF7/CD27 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr21-Ile192) of human CD27/TNFRSF7 (Accession #NP_001233.1) fused with a Fc, 6xHis tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD27 at 2 μg/mL (100 μL/well) can bind Human CD70 with a linear range of 0.781-0.885 ng/mL.

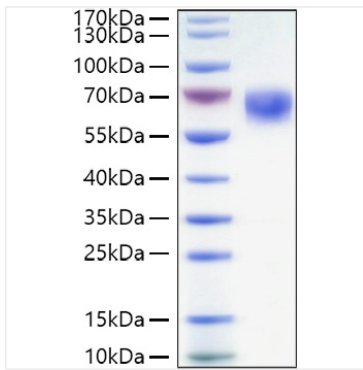
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

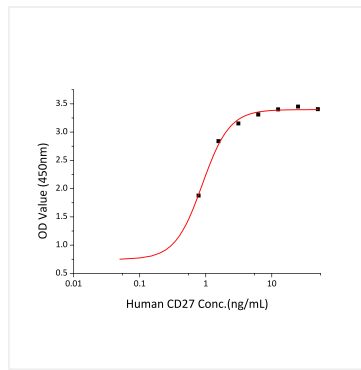
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human TNFRSF7/CD27 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-70kDa.



Immobilized Human CD27 at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Human CD70 with a linear range of 0.781-0.885ng/mL.