

Recombinant Mouse CD70/TNFSF7/CD27 Ligand Protein

Catalog No.: RP01864 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	21948	O55237

Tags

N-his

Synonyms

Cd70; Cd27l; Cd27lg; Tnfsf7 \square CD70 antigen; CD27 ligand; CD27-L; Tumor necrosis factor ligand superfamily member 7; CD70.

Product Information

Source	Purification
HEK293 cells	

Endotoxin

<0.1EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m 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.

Contact

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Background

CD70 is the ligand of CD27 in activated T and B lymphocytes, is an important cytokine in CD70-CD27 pathway involving with the generation and maintenance of T cell immunity. CD70 is a surface antigen, also shows antiviral activity and regulates viability of tumor cells and regulatory T cells. As for CD70 protein in mouse contains TNF_2 domain (60-190 a.a) and transmembrane helix, belonging to the tumor necrosis factor (TNF) family. CD70 (CD27 Ligand) belongs to the tumor necrosis factor (TNF) family, is the ligand for TNFRSF27/CD27. CD70 and CD27 are homotrimer type II and homodimer type I transmembrane glycoprotein, expressing on activated and resting T and B lymphocytes, respectively. As for a wildly use of CD70 in animal disease model, the sequence of amino acids in mouse is very different from human (56.25%) and rat (77.20%). CD70 as one of the most frequently mutated genes in a series of diffuse large B cell lymphomas, especially acts in a crucial Epstein-Barr virus (EBV)-specific T cell immunity and more generally for the immune surveillance of B cells. CD70 inhibits EBV infection by restoring the expansion of EBV-specific T lymphocytes stimulated by the CD70-deficient EBV-infected B cells. CD70 involves in activation of innate and adaptive immunity, expressing in the mature dendritic cells and being up-regulated upon the triggering of CD40 or Toll-like receptors. CD70 induces proliferation of costimulated T cells, enhances the generation of cytolytic T cells, and contributes to T cell activation. CD70 is also reported to play a role in regulating B-cell activation, cytotoxic function of natural killer cells, and immunoglobulin sythesis. targeting CD70 positive tumors with CAR-T cells induces a potent antitumor response.

Basic Information

Description

Recombinant Mouse CD70/TNFSF7/CD27 Ligand Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu53-Arg195) of Mouse CD70/TNFSF7/CD27 Ligand (Accession #NP_035747.1) fused with a His tag at the N-terminus.

Bio-Activity

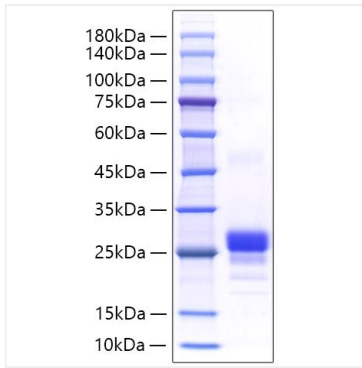
Storage

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 Mouse CD70/TNFSF7/CD27 Ligand Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-30 kDa.