Recombinant Mouse TNFSF7/CD27 Ligand/CD70 Ligand Protein

Catalog No.: RP01864

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Sequence Information

Species	Gene ID
Mouse	21948
Swiss Prot	**Tags**
O55237	N-his

Synonyms

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

Product Information

Source	Purification
HEK293 cells	≥ 90% as determined by SDS-PAGE.
Calculated MW	**Observed MW**
12.48 kDa	25-30 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 TNFSF7/CD27 Ligand/CD70 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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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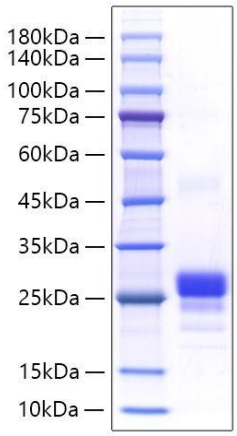
Validation Data



Recombinant Mouse TNFSF7/CD27 Ligand/CD70 Ligand Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.