

Recombinant Mouse TNFSF8/CD30 Ligand/CD153 Protein

Catalog No.: RP01916 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	21949	P32972

Tags

N-His

Synonyms

CD153 antigen; CD153; CD30 antigen ligand; CD30 Ligand; CD30L; CD30-L; CD30LCD30 ligand; CD30LGMGC138144; TNFSF8; tumor necrosis factor (ligand) superfamily; member 8; tumor necrosis factor ligand superfamily member 8

Product Information

Source	Purification
HEK293 cells	≥ 85% as determined by SDS-PAGE.

Calculated MW	Observed MW
16.51 kDa	20-35 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 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

CD30 Ligand (CD30L)/TNFSF8 is a type II membrane protein belonging to the TNF superfamily. CD30L is expressed on the cell surface of activated T cells, B cells, and monocytes. The protein is also constitutively expressed on granulocytes and medullary thymic epithelial cells. The specific receptor for CD30L is CD30/TNFRSF8, a type I transmembrane glycoprotein belonging to the TNF receptor superfamily. CD30 was originally identified as a cell surface antigen of Hodgkin's and Reed-Sternberg cells using the monoclonal antibody Ki-1. CD30 is also expressed on different non-Hodgkin's lymphomas, virus-infected T and B cells, and on normal T and B cells after activation. Among T cells, CD30 is preferentially expressed on a subset of T cells producing Th2-type cytokines and on CD4+/CD8+ thymocytes that coexpress CD45RO and IL-4 receptor. CD30 ligation by CD30L mediates pleiotropic effects including cell proliferation, activation, differentiation and cell death by apoptosis. CD30 can act as a costimulatory molecule in thymic negative selection and may also play a critical role in the pathophysiology of Hodgkin's disease and other CD30+ lymphomas.

Basic Information

Description

Recombinant Mouse TNFSF8/CD30 Ligand Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser103-ASP239) of Mouse TNFSF8/CD30 Ligand (Accession #NP_033429.1) fused with a His tag at the N-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

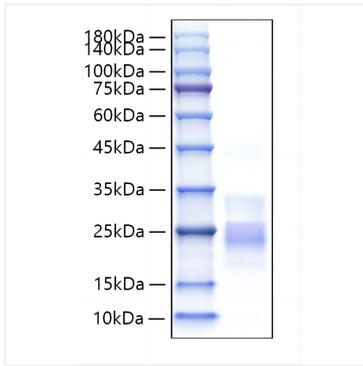
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

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

Validation Data



Recombinant Mouse TNFSF8/CD30
Ligand/CD153 Protein was determined by
SDS-PAGE under reducing conditions with
Coomassie Blue.