

# Cynomolgus CD153 / CD30L / TNFSF8 Protein (Fc Tag)

Catalog Number: 90091-C01H



**Sino Biological Inc.**

Biological Solution Specialist

## General Information

### Gene Name Synonym:

TNFSF8

### Protein Construction:

A DNA sequence encoding the cynomolgus TNFSF8 (G7P2F1) (Gln63-Asp234) was expressed, with the Fc region of human IgG1 at the N-terminus.

**Source:** Cynomolgus

**Expression Host:** Human Cells

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE

### Bio-Activity

**Immobilized Cynomolgus Fc-TNFSF8 at 10 µg/ml (100 µl/well) can bind biotinylated human CD30-Fc (Cat:10777-H03H). The EC50 of biotinylated human CD30-Fc (Cat:10777-H03H) is 5.3-12.5 ng/ml.**

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Glu

### Molecular Mass:

The recombinant cynomolgus TNFSF8 is a disulfide-linked homodimer. The reduced monomer comprises 432 amino acids and has a calculated molecular mass of 48.1 KDa. The apparent molecular mass of the protein is approximately 59 KDa respectively in SDS-PAGE.

### Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

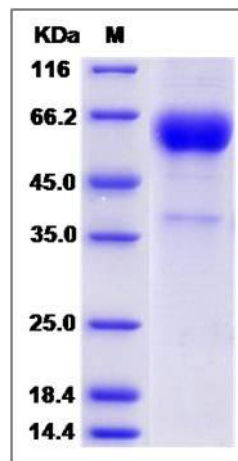
## Usage Guide

### Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### SDS-PAGE:



### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## Protein Description

CD30 ligand (CD30L), also known as CD153 and TNFSF8, is a cytokine belonging to the emerging tumor necrosis factor (TNF) ligand superfamily, and is a specific ligand for CD30/ TNFRSF8 originally described as a cell surface antigen and a marker for Hodgkin lymphoma and related hematologic malignancies. CD30L is a type-II membrane glycoprotein expressed on activated T cells, stimulated monocyte-macrophages, granulocytes, eosinophils, and some Burkitt-like lymphoma cell lines. CD30L is capable of transducing signals through CD30 on different CD30+ lymphoma cell lines, and mediates pleiotropic biologic effects including cell proliferation, activation, differentiation, as well as cell death by apoptosis. CD30-CD30 ligand interaction has been suggested to have a pathophysiologic role in malignant lymphomas, particularly Hodgkin disease, large cell anaplastic lymphomas and Burkitt lymphomas, and is also involved in activation and functioning of the T cell-dependent immune response.

### References

1. Gruss HJ. et al., 1994, Blood. 83: 2045-56.
2. Croager EJ. et al., 1997, Biochim Biophys Acta. 1353: 231-5.
3. Wendtner CM. et al., 1995, Cancer Res. 55: 4157-61.
4. Fischer M. et al., 2006, J Clin Invest. 116: 2748-56.
5. Blazar BR. et al., 2004, J Immunol. 173: 2933-41.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>