

Cynomolgus OX-40L / TNFSF4 Protein (Fc Tag)

Catalog Number: 90088-C04H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

TNFSF4

Protein Construction:

A DNA sequence encoding the cynomolgus TNFSF4 (F7FL80) (Gln51-Leu183) was expressed with the Fc region of mouse IgG1 at the N-terminus.

Source: Cynomolgus

Expression Host: Human Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Bio-Activity

Immobilized Cynomolgus mFc-TNFSF4 at 10 µg/ml (100 µl/well) can bind human TNFRSF4-Fc (Cat:10481-H03H). The EC₅₀ of human TNFRSF4-Fc (Cat:10481-H03H) is 0.23-0.55 µg/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: Asp

Molecular Mass:

The recombinant cynomolgus TNFSF4 is a disulfide-linked homodimer. The reduced monomer comprises 369 amino acids and has a calculated molecular mass of 42 KDa. The apparent molecular mass of it is approximately 48 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.

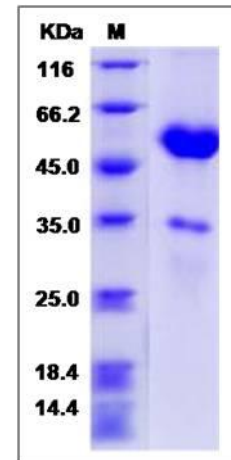
Usage Guide

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

OX-40L, also known as TNFSF4 and CD252, is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. OX-40L is an important costimulatory molecule that plays a crucial role in the regulation of T-cell-mediated immunity. The interaction of TNFSF4-TNFSF4 is involved in the pathogenesis of multiple autoimmune and inflammatory diseases such as systemic lupus erythematosus (SLE), carotid artery disease and cancer. OX-40L is a ligand for receptor TNFRSF4/OX4. It is found to play a role in T cell antigen-presenting cell (APC) interactions. In surface Ig- and CD40-stimulated B cells, this cytokine along with CD70 has been shown to provide CD28-independent costimulatory signals to T cells. This protein and its receptor are reported to directly mediate adhesion of activated T cells to vascular endothelial cells.

References

1. Lei W. et al., 2012, Ann Acad Med Singapore. 41 (5): 200-4.
2. Lee YH. et al., 2012, Hum Immunol. 73 (10): 1050-4.
3. Weiguang Y. et al., 2012, PLoS One. 7 (8): e41277.

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