

Active Recombinant Cynomolgus TNFSF4, Fc-tagged

Cat. No. TNFSF4-85C Lot. No. (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the cynomolgus TNFSF4 (Gln51-Leu183) was expressed with the Fc region of mouse IgG1 at the N-terminus.
Species	Cynomolgus
Source	Human Cells
ProteinLength	51-183 a.a.
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.
Predicted N Terminal	Asp
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	Immobilized Cynomolgus mFc-TNFSF4 at 10 µg/ml (100 µl/well) can bind human

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TNFRSF4-Fch, The EC50 of human TNFRSF4-Fch is 0.23-0.55 µg/ml.

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.

Endotoxin

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

Purity

> 85 % as determined by SDS-PAGE

Stability

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

Storage

Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name

TNFSF4 tumor necrosis factor (ligand) superfamily, member 4 [*Macaca fascicularis* (crab-eating macaque)]

Official Symbol

TNFSF4

Synonyms

TNFSF4; tumor necrosis factor (ligand) superfamily, member 4; hypothetical protein

Gene ID

102141877

mRNA Refseq

XM_005540022

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Protein Refseq	XP_005540079
Chromosome Location	1
Pathway	Cytokine-cytokine receptor interaction

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