

Active Recombinant Mouse Tnfsf4 protein, His-tagged

Cat. No. Tnfsf4-21M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Tnfsf4(Gln49-Leu198) fused with His tag at N-terminal was expressed in HEK293.

Species Mouse

Source HEK293

ProteinLength Gln49-Leu198

Description

OX40 Ligand (OX40L), also known as gp34, is a type II transmembrane glycoprotein belonging to the TNF superfamily. Murine OX40L cDNA encodes a 198 amino acid (aa) residue protein comprised of a 28 aa N-terminal cytoplasmic domain, a 20 aa transmembrane segment, and a 150 aa C-terminal extracellular domain. Human and murine OX40L share 46% sequence identity at the amino acid level. The OX40L is expressed on activated antigen presenting cells such as B cells, macrophages, dendritic cells, and on endothelial cells at the site of inflammation. The receptor for OX40L is OX40 (CD134) that is expressed predominantly on activated CD4+ T cells. Expression of OX40 is transient following engagement of T cell receptors. Ligation of OX40L by OX40 stimulates proliferation and differentiation of activated B cells, and increases immunoglobulin secretion. The expression of OX40L on B cells is up-regulated by CD40 ligation. Engagement of the OX40-OX40L system has co-stimulatory effects on T cells by stimulating the production of cytokines by T helper cells and increasing the survival of memory T cells. Blocking of the OX40-OX40L interaction in vitro inhibits co-stimulation resulting in decreased T cell proliferation and

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adhesion of T cells to endothelial cells. Inhibition of the OX40-OX40L interaction in disease models has beneficial effects in acute graft-versus-host disease, inflammatory bowel disease and decreases the development of collagen-induced arthritis and experimental leishmaniasis.

Predicted N Terminal

His

Form

Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.

Bio-activity

Measured by its ability to co-stimulate IL-2 secretion by mouse T cells in the presence of anti-CD3. The ED50 for this effect is typically 10-30 ng/mL in the presence of a cross-linking antibody, Mouse Anti-polyHistidine Monoclonal Antibody.

Molecular Mass

Predicted Molecular Mass: 18 kDa
SDS-PAGE: 21-25 kDa, reducing conditions

Endotoxin

<1.0 EU per 1 µg of the protein by the LAL method.

Purity

>95%, by SDS-PAGE under reducing conditions and visualized by silver stain

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
12 months from date of receipt, -20 to -70 centigrade as supplied.
1 month, 2 to 8 centigrade under sterile conditions after reconstitution.
3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution

Reconstitute at 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.

Shipping

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

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GENE INFORMATION

Gene Name	Tnfsf4 tumor necrosis factor (ligand) superfamily, member 4 [Mus musculus]
Official Symbol	Tnfsf4
Synonyms	TNFSF4; tumor necrosis factor (ligand) superfamily, member 4; tumor necrosis factor ligand superfamily member 4; OX40 ligand; atherosclerosis 1; tax-transcriptionally activated glycoprotein 1 ligand; Ath1; gp34; Ath-1; Ox40l; TXGP1; CD134L; OX-40L; Txgp1l;
Gene ID	22164
mRNA Refseq	NM_009452
Protein Refseq	NP_033478
UniProt ID	P43488

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