

Recombinant Human TNFRSF4

Cat. No. TNFRSF4-967H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human OX40L produced in <i>Insect cells</i> is a glycosylated 133 amino acid protein corresponding to the extracellular TNF homologous domain of the full length transmembrane protein. It migrates with an apparent molecular mass of 15.5 – 25.0 kDa on SDS-PAGE.
Species	Human
Source	Insect Cells
Description	OX40L, a member of the TNF superfamily of structurally related proteins, exists primarily as a type II membrane bound, non-covalently linked homotrimeric protein. It is expressed on antigen presenting cells (APCs), such as dendritic cells and activated B-cells, and also on various other cells such as vascular endothelial cells, mast cells, and natural killer cells. OX40L signals specifically through the OX40 receptor, which is expressed predominantly on CD4+T cells but also on certain activated CD8+T cells. OX40/OX40L functions as a costimulatory signal, which is required for a productive interaction between antigen presenting cells and their target T-cells. It enhances cell proliferation and survival, and increases expression of RANTES, IL-2, IL-3, and IFN γ . OX40/OX40L signaling plays an important role in immuno-regulatory communication, enabling the immune system to distinguish between “friend vs. foe” during activation; a mechanism typically termed immuno-tolerance.
Purity	> 97%, by SDS-PAGE and HPLC analysis.

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Endotoxin Level	< 0.1 ng perugof sOX40 Ligand.
Stabilizer	None.
Formulation	Lyophilized.
Biological Activity	Determined by its ability to stimulate IL-8 production by human PBMC using a concentration range of 30-100 ng/ml. Note: Results may vary with PBMC donors.
Stability	The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted sOX40 Ligand is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze-thaw cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	TNFRSF4 tumor necrosis factor receptor superfamily, member 4 [Homo sapiens]
Synonyms	tumor necrosis factor receptor superfamily, member 4; OX40; ACT35; CD134; TXGP1L; TNFRSF4; tax-transcriptionally activated glycoprotein 1 receptor; lymphoid activation antigene ACT35; OX40 cell surface antigen; OX40 homologue; CD134 antigen; ATC35 antigen; OX40 antigen; OTTHUMP00000001522; ACT35 antigen; OX40L receptor; TAX transcriptionally-activated glycoprotein 1 receptor
Gene ID	7293
mRNA Refseq	NM_003327
Protein Refseq	NP_003318

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MIM	600315
UniProt ID	P43489
Chromosome Location	1p36
Pathway	Cytokine-cytokine receptor interaction
Function	protein binding; receptor activity; tumor necrosis factor receptor activity
PDB rendering based on 2hev.	