

## Recombinant Human TNFRSF4

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

### SPECIFICATION

**Product Overview**      Recombinant human OX40L produced in *Insect cells* 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 $\gamma$ . 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.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin Level</b>	< 0.1 ng perugof sOX40 Ligand.
<b>Stabilizer</b>	None.
<b>Formulation</b>	Lyophilized.
<b>Biological Activity</b>	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.
<b>Stability</b>	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.
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	TNFRSF4 tumor necrosis factor receptor superfamily, member 4 [ Homo sapiens ]
<b>Synonyms</b>	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
<b>Gene ID</b>	7293
<b>mRNA Refseq</b>	NM_003327
<b>Protein Refseq</b>	NP_003318

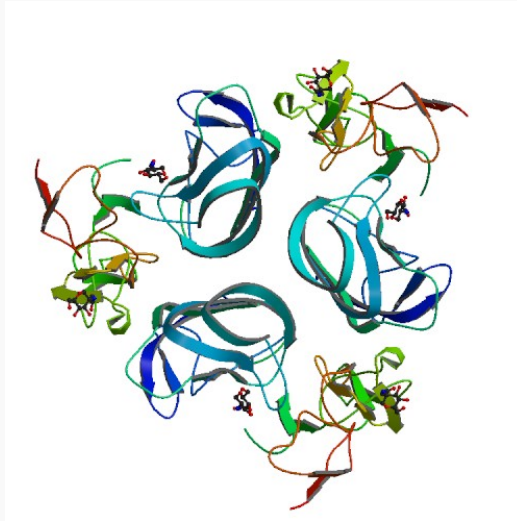
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<b>MIM</b>	600315
<b>UniProt ID</b>	P43489
<b>Chromosome Location</b>	1p36
<b>Pathway</b>	Cytokine-cytokine receptor interaction
<b>Function</b>	protein binding; receptor activity; tumor necrosis factor receptor activity

PDB rendering based on 2hev.



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