



## Recombinant Human OX40 ligand, soluble

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>S01-052S</b>
Size:	2 µg
Lot. No.:	According to product label

### Sequence

QVSHRYPRIQSIKVKQFTEYKKEKGFILTSQKEDIMKVQNNSVIINCDGFYL  
ISLKGYSQEVNLSLHYQKDEEPLFQLKKVRSVNSLMVASLTYKDKVYLNVT  
TDNTSLDDFHVNGGELILIHQNPGEFCVL

### Database References

<b>Protein RefSeq:</b>	NP_003317.1
<b>Uniprot ID:</b>	P23510
<b>mRNA RefSeq:</b>	NM_003326.3

## Scientific Background

<b>Gene-ID (NCBI):</b>	7292
<b>Synonyms:</b>	TNFSF4; GP34; CD252; OX40L; TXGP1; CD134L; OX-40L; TAX transcriptionally-activated glycoprotein 1

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 immunoregulatory communication, enabling the immune system to distinguish between "friend vs. foe" during activation; a mechanism typically termed immuno-tolerance. Recombinant OX40L 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.

## Product Specifications

<b>Expressed in</b>	Insect cells
<b>Purity</b>	> 97% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	133
<b>MW:</b>	15.5-25 kDa

**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.



**AVOID REPEATED FREEZE AND THAW CYCLES!**



# ReliaTech GmbH

Specification/Data Sheet