

## sOX40 Ligand Human Hi-5 Insect cells

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> Hi-5 Insect cells	RBG10259002	(2 µg)
<b>Species:</b> Human	RBG10259010	(10 µg)
<b>Other names:</b> TNFSF4, OX40L, Gp34, CD252	RBG10259100	(100 µg)

### 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. 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.

### Research topic

Immune Response, Infection and Inflammation, Oncology, Transplantation

### Amino Acid Sequence

QVSHRYPRIQ SIKVQFTEYK KEKGFILTSQ KEDEIMKVQN NSVIINCDGF YLISLKGYS QEVNISLHYQ KDEEPLFQLK  
KVRSVNSLMV ASLTYKDKVY LNVTTDNTSL DDFHVNGGEL ILIHQNPGEF CVL

### Source

Hi-5 Insect cells

### Purity

97%

### 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.

### Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

### Storage, Stability/Shelf Life

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