



Synonym

OX40L,TNFSF4,CD252,Glycoprotein Gp34,TXGP1,CD134 ligand,CD134L

Source

Biotinylated Human OX40 Ligand Protein, Avitag,Fc Tag, premium grade(OXL-H82F5) is expressed from human 293 cells (HEK293). It contains AA Gln 51 - Leu 183 (Accession # [P23510-1](#)).
Predicted N-terminus: Gly

It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage. When ready to transition into later clinical phases, we also offer a custom GMP protein service that tailors to your needs. We will work with you to customize and develop a GMP-grade product in accordance with your requests that also meets the requirements for raw and ancillary materials use in cell manufacturing of cell-based therapies.

Molecular Characterization

This protein carries an Avi tag (Avitag™) at the N-terminus, followed by a human IgG1 Fc tag.

The protein has a calculated MW of 75.7 kDa. The protein migrates as >145 kDa under reducing (R) condition, and 135-235 kDa under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Host Cell Protein

<0.5 ng/µg of protein tested by ELISA.

Host Cell DNA

<0.02 ng/µg of protein tested by qPCR.

Sterility

Negative

Mycoplasma

Negative

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 150 mM NaCl, PH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

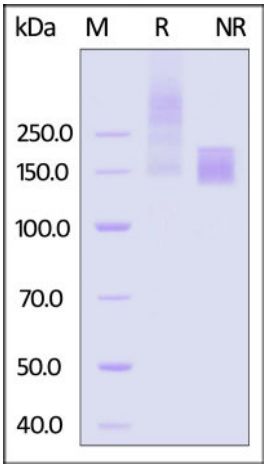
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

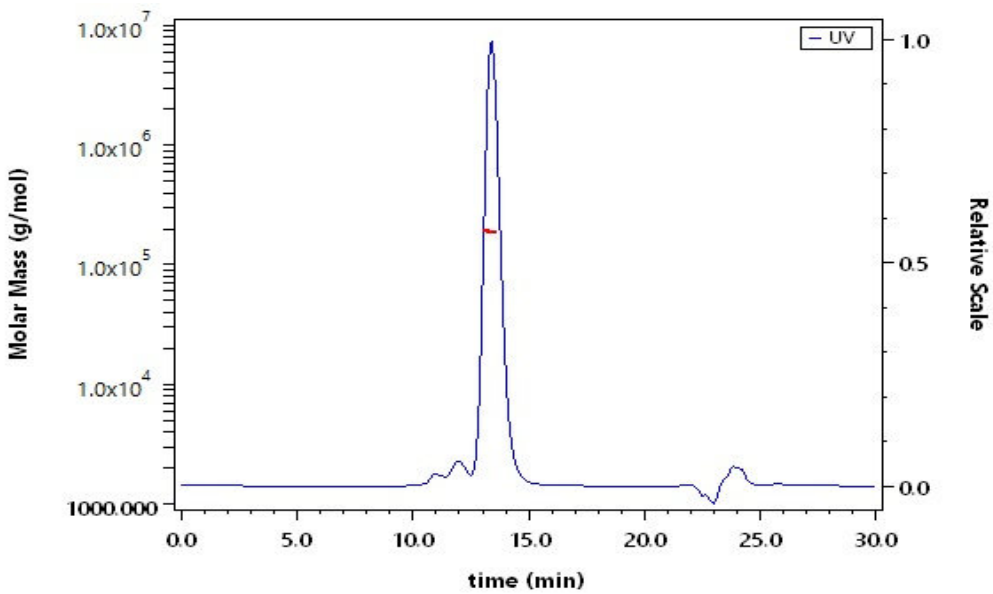
SDS-PAGE

SEC-MALS





Biotinylated Human OX40 Ligand Protein, Avitag,Fc Tag, premium grade on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

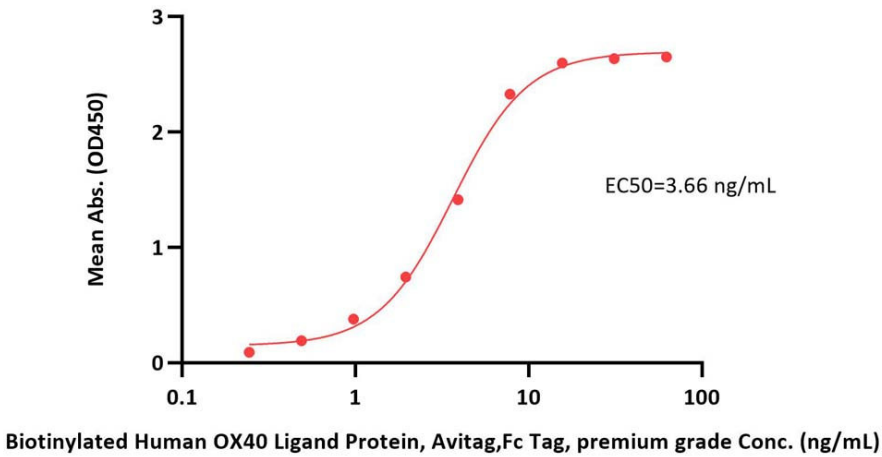


The purity of Biotinylated Human OX40 Ligand Protein, Avitag,Fc Tag, premium grade (Cat. No. OXL-H82F5) is more than 90% and the molecular weight of this protein is around 175-205 kDa verified by SEC-MALS.

[Report](#)

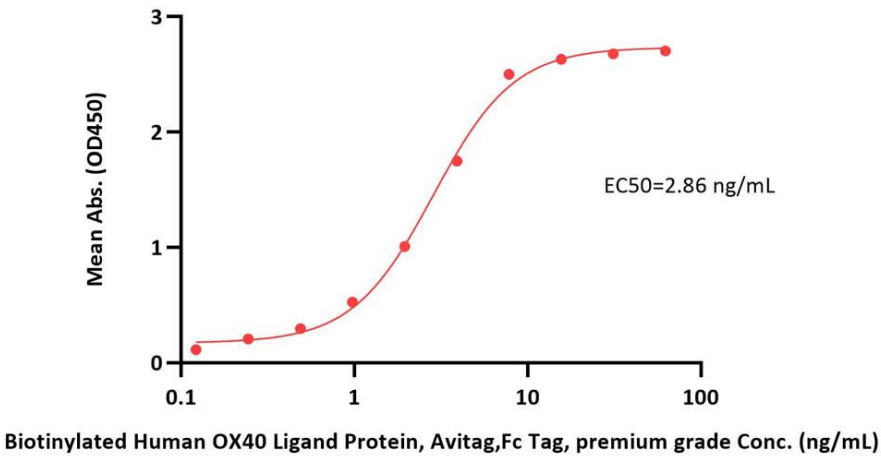
Bioactivity-ELISA

Biotinylated Human OX40 Ligand Protein, Avitag,Fc Tag, premium grade ELISA
0.1 µg of Human OX40 Protein, His Tag per well



Immobilized Human OX40 Protein, His Tag (Cat. No. OX0-H5224) at 1 µg/mL (100 µL/well) can bind Biotinylated Human OX40 Ligand Protein, Avitag,Fc Tag, premium grade (Cat. No. OXL-H82F5) with a linear range of 0.2-8 ng/mL (QC tested).

Biotinylated Human OX40 Ligand Protein, Avitag,Fc Tag, premium grade ELISA
0.1 µg of Human Olfactory Marker Protein, His Tag per well



Immobilized Human Olfactory Marker Protein, His Tag at 1 µg/mL (100 µL/well) can bind Biotinylated Human OX40 Ligand Protein, Avitag,Fc Tag, premium grade (Cat. No. OXL-H82F5) with a linear range of 0.1-8 ng/mL (Routinely tested).

Background

Tumor necrosis factor ligand superfamily member 4 (TNFSF4) is also known as glycoprotein Gp34, OX40 ligand (OX40L), TAX transcriptionally-activated glycoprotein 1 and CD252, which belongs to the tumor necrosis factor family. TNFSF4 is the ligand for CD134 and is expressed on such cells as DC2s (a subtype of dendritic cells) enabling amplification of Th2 cell differentiation. The interaction of TNFSF4-TNFSF4 is involved in the pathogenesis of multiple autoimmune and inflammatory diseases such as systemic lupus erythematosus (SLE), carotid artery disease and cancer. Furthermore, similar to other TNF superfamily members, membrane-bound OX40 Ligand (TNFSF4) exists as a homotrimer. Human TNFSF4 shares 46% amino acid sequence identity with its mouse counterpart.

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