

Biotinylated Cynomolgus / Rhesus macaque OX40 Ligand / TNFSF4 Protein, His,Avitag™

Catalog # OXL-C52Q3



BIOSYSTEMS
Acro

Synonyms

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

Source

Biotinylated Cynomolgus / Rhesus macaque OX40 Ligand Protein, His,Avitag (OXL-C52Q3) is expressed from human 293 cells (HEK293). It contains AA Gln 51 - Leu 183 (Accession # [A0A1D5QQH7](#)). In the region Gln 51 - Leu 183, the amino acid sequences of Cynomolgus and Rhesus macaque OX40 Ligand are identical.

Predicted N-terminus: His

Molecular Characterization

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

The protein has a calculated MW of 51.0 kDa. The protein migrates as 55-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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.

Purity

>85% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

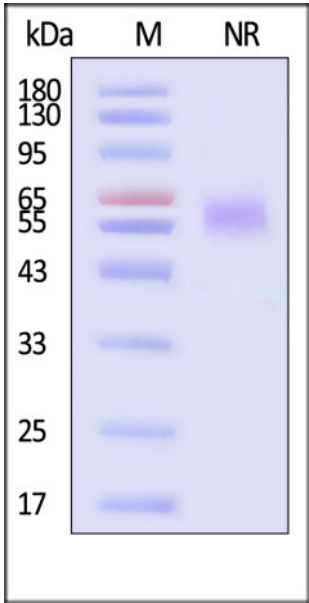
This product is stable after storage at:

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

ACRO Quality Management System

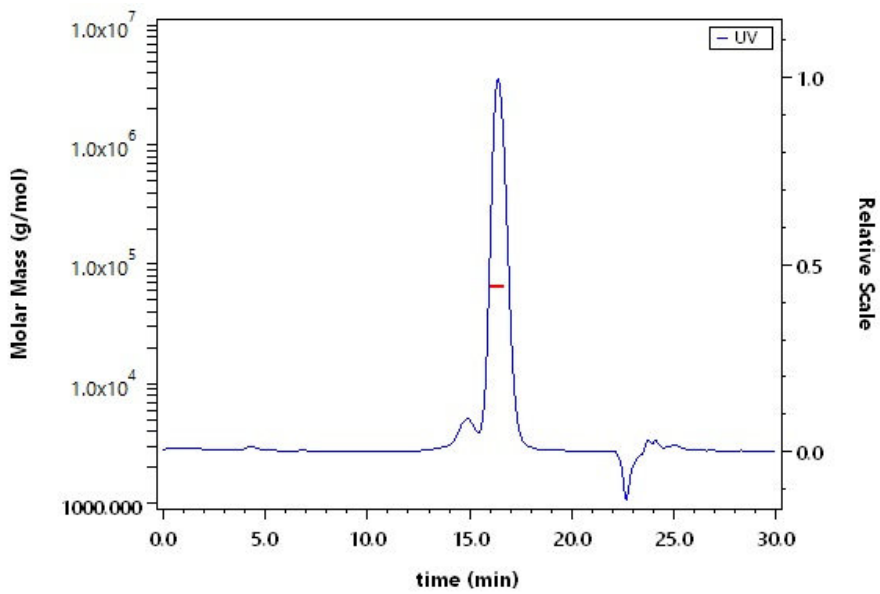
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



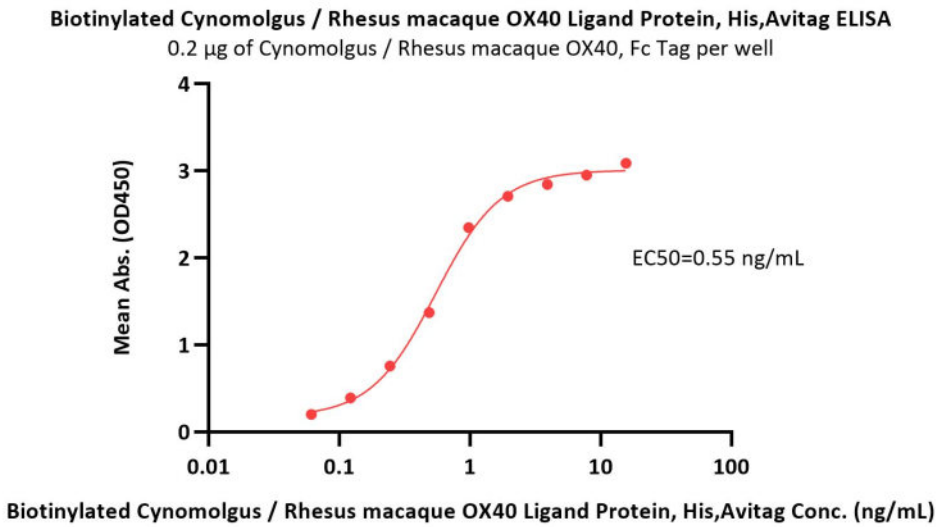
Biotinylated Cynomolgus / Rhesus macaque OX40 Ligand Protein, His,Avitag on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 85% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

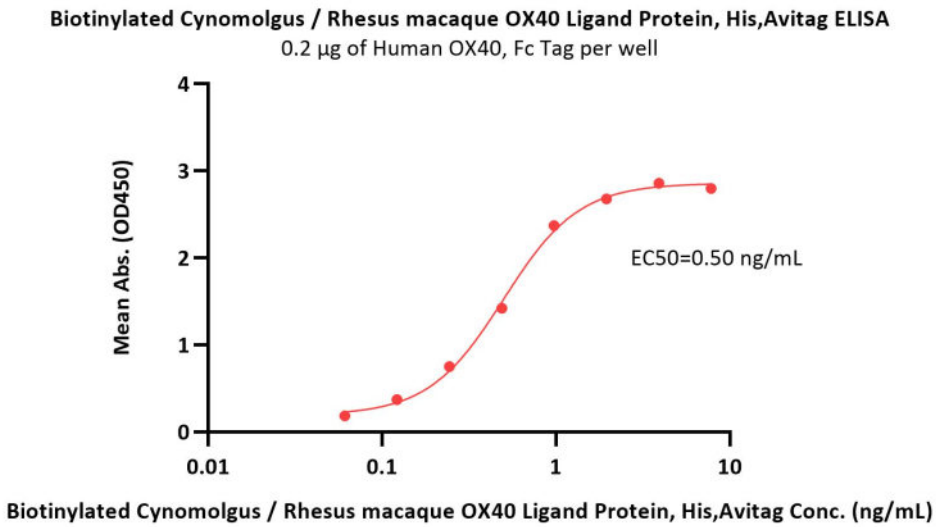


The purity of Biotinylated Cynomolgus / Rhesus macaque OX40 Ligand Protein, His,Avitag (Cat. No. OXL-C52Q3) is more than 90% and the molecular weight of this protein is around 50-75 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Cynomolgus / Rhesus macaque OX40, Fc Tag (Cat. No. OX0-C5251) at 2 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus / Rhesus macaque OX40 Ligand Protein, His,Avitag (Cat. No. OXL-C52Q3) with a linear range of 0.06-1 ng/mL (QC tested).



Immobilized Human OX40, Fc Tag (Cat. No. OX0-H5255) at 2 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus / Rhesus macaque OX40 Ligand Protein, His,Avitag (Cat. No. OXL-C52Q3) with a linear range of 0.06-1 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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