Biotinylated Human OX40 Ligand / TNFSF4 Protein, His,Avitag™, active trimer (MALS verified)

Catalog # OXL-H82Q5

Synonym

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

Source

Biotinylated Human OX40 Ligand, His,Avitag(OXL-H82Q5) is expressed from human 293 cells (HEK293). It contains AA Gln 51 - Leu 183 (Accession # P23510-1).
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 51.1 kDa. The protein migrates as 65-80 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 1.0 EU per μg by the LAL method.

Purity

>90% 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.

Storage

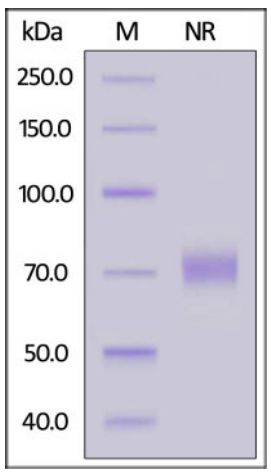
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

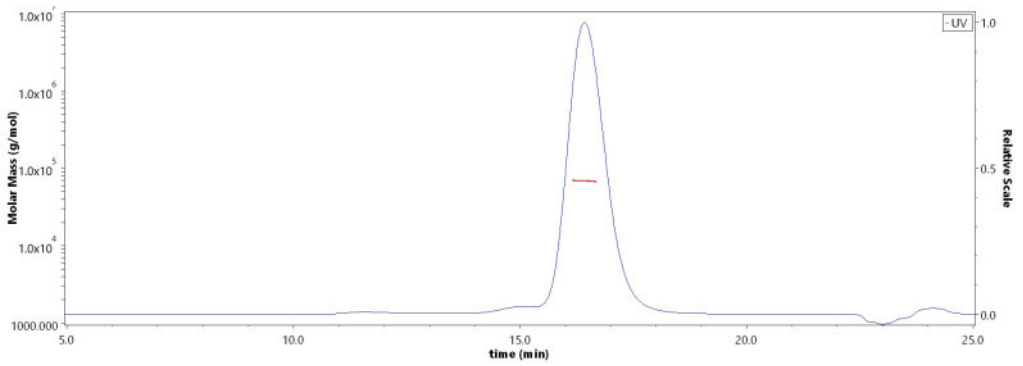
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



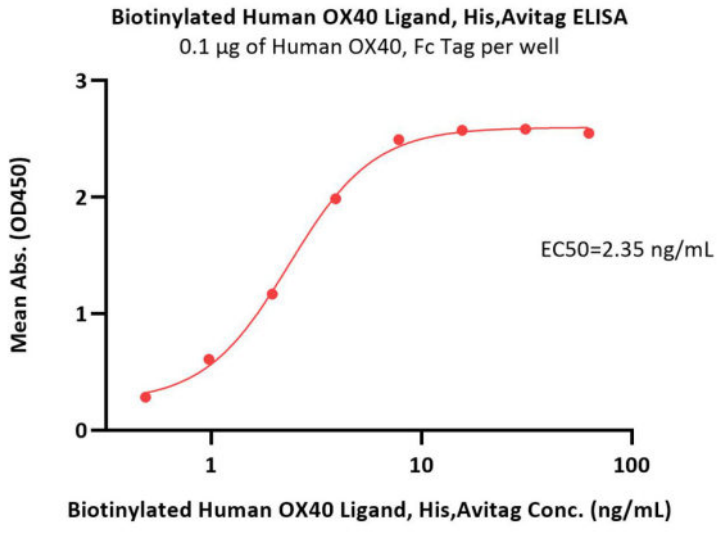
Biotinylated Human OX40 Ligand, His,Avitag on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of Biotinylated Human OX40 Ligand, His,Avitag (Cat. No. OXL-H82Q5) is more than 90% and the molecular weight of this protein is around 57-78 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Human OX40, Fc Tag (Cat. No. OX0-H5255) at 1 μg/mL (100 μL/well) can bind Biotinylated Human OX40 Ligand, His,Avitag (Cat. No. OXL-H82Q5) with a linear range of 0.5-8 ng/mL (QC 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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.