# Human OX40 Ligand / TNFSF4 Protein, His Tag, active trimer

Catalog # OXL-H52Q8AI

## Application

Human OX40 Ligand Protein, His Tag AIDD-Ready protein is designed for direct use in SPR assays. It is supplied in a sugar-free, glycerol-free formulation to eliminate refractive index interference in SPR. No desalting or buffer exchange is required before use, simplifying the SPR workflow and supporting high-throughput experimental validation to accelerate the transition from AI prediction to wet-lab validation.

## Features and Advantages

- **Directly compatible with SPR:** No desalting or buffer exchange required; supplied as a liquid to reduce sample preparation and improve experimental efficiency.
- **High batch-to-batch consistency:** Each lot is released using SPR QC to ensure experimental reproducibility.
- **Validated with representative drugs:** SPR binding activity is validated using representative drug antibodies to ensure suitability for drug screening and evaluation.

## Synonyms

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

## Source

Human OX40 Ligand Protein, His Tag (OXL-H52Q8AI) 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.

The protein has a calculated MW of 16.9 kDa. The protein migrates as 20-21 kDa and 23-28 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a trimer.

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Formulated in a proprietary trehalose-free buffer, supplied ready-to-use for SPR/BLI analysis - no buffer exchange required.

For detailed formulation, please refer to the batch-specific COA.

## Shipping and Storage

This product is supplied and shipped on dry ice.

**Please avoid repeated freeze-thaw cycles.**

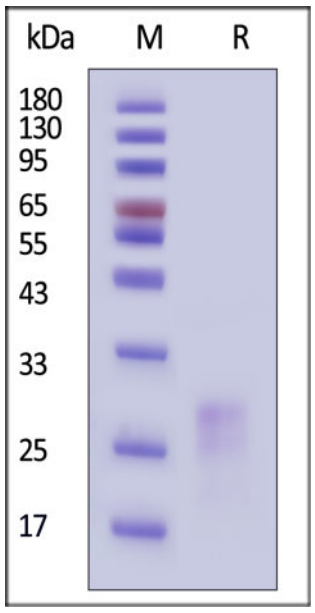
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

## ACRO Quality Management System

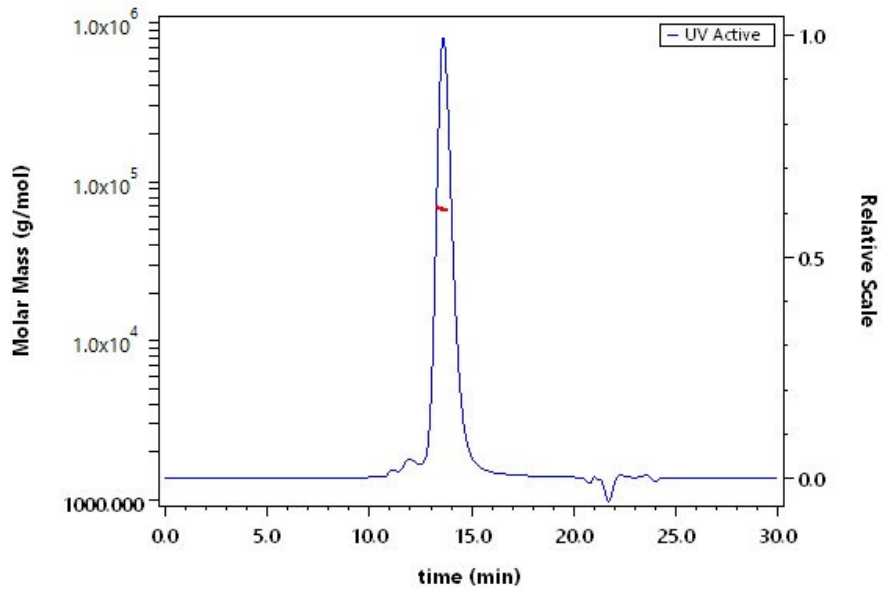
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

## SDS-PAGE



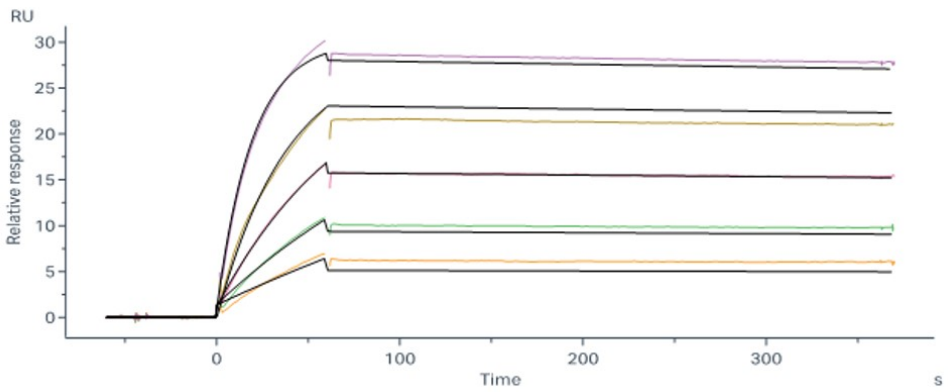

Human OX40 Ligand Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

## SEC-MALS




The purity of Human OX40 Ligand Protein, His Tag (Cat. No. OXL-H52Q8AI) is more than 90% and the molecular weight of this protein is around 60-80 kDa verified by SEC-MALS.

## Activity-SPR




Amlitelimab (biosimilar) captured on Protein A Chip can bind Human OX40 Ligand Protein, His Tag (Cat. No. OXL-H52Q8AI) with an affinity constant of 65.8 pM as determined in a SPR assay (Biacore 8K) (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.

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