

Human OX40/TNFRSF4/CD134 Protein

Cat. No. OX4-HM440

Description

Source	Recombinant Human OX40/TNFRSF4/CD134 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Leu29-Ala216.
Accession	P43489
Molecular Weight	The protein has a predicted MW of 23.2 kDa. Due to glycosylation, the protein migrates to 48-55 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

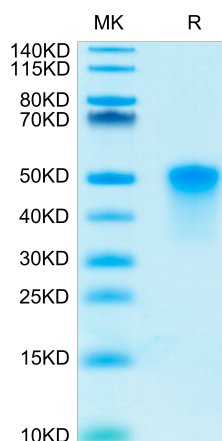
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Tumor necrosis factor receptor superfamily, member 4 (TNFRSF4), also known as CD134 and OX40 receptor. OX40 is a secondary co-stimulatory immune checkpoint molecule, expressed after 24 to 72 hours following activation; its ligand, OX40L, is also not expressed on resting antigen presenting cells, but is following their activation.

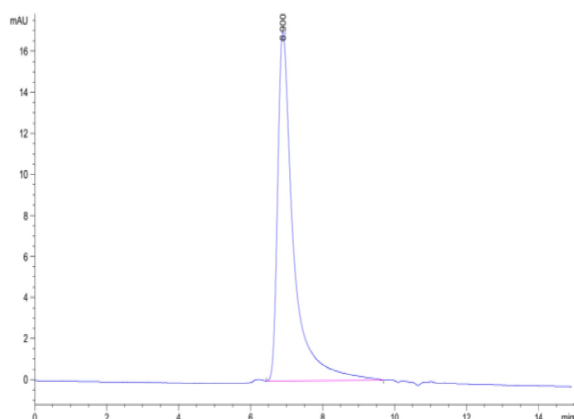
Assay Data

Bis-Tris PAGE



Human OX40 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



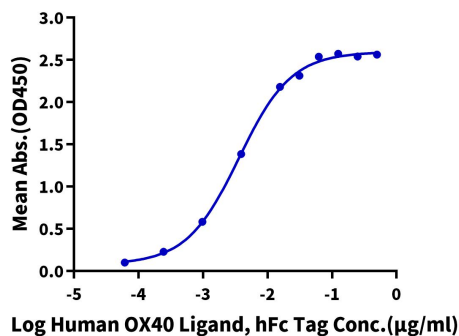
The purity of Human OX40 is greater than 95% as determined by SEC HPLC.

Assay Data

ELISA Data

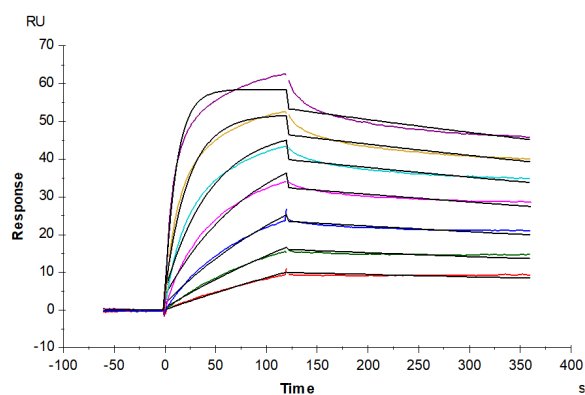
Human OX40, His Tag ELISA

0.2µg Human OX40, His Tag Per Well



Immobilized Human OX40, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human OX40 Ligand, hFc Tag with the EC50 of 3.6ng/ml determined by ELISA (QC Test).

SPR Data



Human OX40, His-Avi Tag captured on CM5 Chip via Anti-His Antibody can bind Human OX40 Ligand, hFc Tag with an affinity constant of 4.17 nM as determined in SPR assay (Biacore T200).