

# Human OX40 Protein; hFc Tag

## Product Information

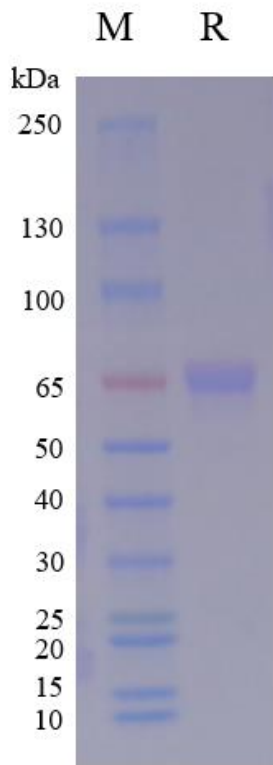
<b>Product Name</b>	Human OX40 Protein; hFc Tag
<b>Storage temp</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-88597RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-88597RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	TNFRSF4, CD134, OX40L receptor, ACT35, TXGP1L
<b>Source</b>	Human OX40 Protein; hFc Tag (GM-88597RP) is expressed from human 293 cells (HEK-293). It contains AA Leu 29 - Ala 216 (Accession # P43489-1). This protein carries a hFc Tag at the C-terminus.
<b>Purity</b>	> 95% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	46.1 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
<b>Description</b>	<p>OX40 protein is a co-stimulatory molecule that belongs to the tumor necrosis factor receptor (TNFR) superfamily. It is encoded by the TNFRSF4 gene and is a protein associated with the human immune system. OX40 protein was initially discovered on activated T cells and later detected on other immune cells, including regulatory T cells (Tregs), natural killer (NK) cells, and natural killer T (NKT) cells.</p> <p>OX40 protein regulates the activity of T cells by binding to its unique ligand, OX40L (OX40 ligand), which is expressed on antigen-presenting cells such as dendritic cells, macrophages, and B cells. T cells are an important type of lymphocyte with the ability to directly kill infected or malignant cells and orchestrate immune responses, making them crucial members of the immune system. OX40 signaling promotes T cell proliferation, survival, cytokine production, and the generation of memory T cells.</p> <p>Research indicates that OX40 protein plays a significant role in regulating T cell activity, promoting effector T cell function, and modulating immune responses. Additionally, the expression of OX40 protein is associated with enhanced anti-tumor immunity, making it a potential target for cancer immunotherapy. Agonistic antibodies targeting OX40 are being developed to boost T cell-mediated antitumor responses, while blocking OX40 signaling may have therapeutic benefits in autoimmune diseases.</p>

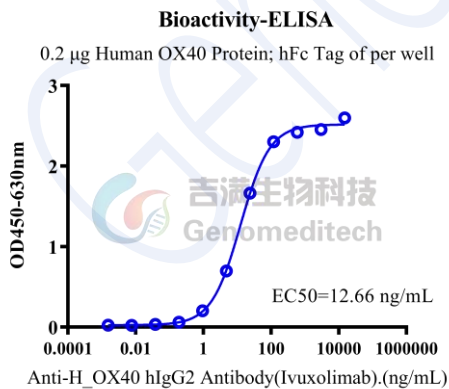
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## SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA



Human OX40 Protein; hFc Tag (Catalog # GM-88597RP) was immobilized at 2  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-H\_OX40 hIgG2 Antibody(Ivuxolimab) (Catalog # GM-23373AB) were added.