

## Overview

<b>Synonyms</b>	ACT-135; ACT35 antigen; ACT35ATC35 antigen; CD134 antigen; CD134; Ly-70; OX40 cell surface antigen; OX40 homologue; OX40; OX40L receptor; OX40lymphoid activation antigene ACT35
<b>Description</b>	<p>OX40 is a T cell co-stimulatory molecule of the TNF receptor superfamily that coordinates with other co-stimulators (CD28, CD40, CD30, CD27 and 4-1BB) to manage the activation of the immune response. 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 cells such as DC2s (a subtype of dendritic cells) enabling amplification of Th2 cell differentiation. OX40 is constitutively expressed on Tregs and enhances the sensitivity of Tregs to IL-2, thus promoting Treg proliferation. OX40 has also shown to decrease the cells' immunosuppressive activity on effector T cells. OX40-OX40 Ligand signaling is involved in allergic airway inflammation, graft-versus-host disease and autoimmune disease.</p> <p>Recombinant Human OX40 produced in HEK293 cells is a polypeptide chain containing 194 amino acids with C-terminal 6xHis. A fully biologically active molecule, rhOX40 has a molecular mass of 40-45 kDa, analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
<b>Accession No</b>	P43489
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Biological Activity</b>	Immobilized OX40 His, human at 2 µg/mL (100 µL/well) can bind Biotin-OX40L His, Human with a linear range of 1.22-19.53 ng/mL when detected by Streptavidin-HRP.
<b>Sequence</b>	<p>LHCVGDTY PSNDRCCCH ECRPGNGM VSRCRSRQ NTVCRPCG          PGFYNDVV SSKPCKPC TWCNLRSG SERKQLCT ATQDTVCR          CRAGTQPL DSYKPGVD CAPCPPGH FSPGDNQA CKPWTNCT          LAGKHTLQ PASNSSDA ICEDRDPP ATQPQETQ GPPARPIT          VQPTAAMP RTSQGPST RPVEVPGG RAVAHHHH HH</p>

## Properties

<b>Measured Molecular Weight</b>	40-45 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by reducing SDS-PAGE.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS, 5% trehalose and mannitol.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant OX40, His, Human remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human OX40 should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.
<b>Note</b>	For research use only

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