Recombinant Human TNFRSF4, Fc Chimera

Cat. No. TNFRSF4-455H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ox40 was fused to the Fc region of human IgG1 (93-330). The chimeric protein was expressed in modified*human 293 cells*.
Species	Human
Source	HEK293
ProteinLength	93-330 a.a.
Description	Ox40 is a member of the tumor necrosis factor receptor (TNFR) family. It is a type I transmembrane protein expressed primarily on the surface of activated CD4+ T-cells. It is also expressed at low levels on the surface of activated CD8+ T cells, B cells, dendritic cells and eosinophils. Ox40 is a co-stimulatory molecule involved in T-cell activation and proliferation, the induction of cytokine production by effector T-cells, generation of memory T-cells, and arresting peripheral T-cell tolerance in vivo. Expression of Ox40 is induced following the initiation of a CD28 signal. It has been reported that the interaction of Ox40 with its ligand plays a role in the expansion of T-cell numbers at the height of the immune response as well as the generation of memory T-cells. Human Ox40 comprises a 186 amino acid extracellular domain containing four TNFR-Cys repeats, followed by a 21 amino acid transmembrane domain and a 42 amino acid cytoplasmic domain. Ox40 activity is mediated by NF-kappaB signaling via interaction of the intracellular domain of Ox40 with TRAF proteins.

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Molecular Mass	Ox40-Fc Chimera igrates as a broad band between 55 and 65 kDa in SDS-PAGE due to post-translation modifications, in particular glycosylation. This compares with the unmodified Ox40-Fc Chimera that has a predicted molecular mass of 46.4kDa.
PI	Ox40-Fc Chimera separates into a number of isoforms with a pI between 5.5 and 7.9 in 2D PAGE due to post-translational modifications, in particular glycosylation. This compares with the unmodified Ox40-Fc Chimera that has a predicted pI of 8.32.
% Carbohydrate	purified Ox40-Fc Chimera consists of 15-30% carbohydrate by weight.
Glycosylation	Ox40-Fc Chimera has N-linked and O-linked oligosaccharides.
Purity	>95%, as determined by SDS-PAGE and visualized by silver stain.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Storage	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C.

GENE INFORMATION

Gene Name	TNFRSF4 tumor necrosis factor receptor superfamily, member 4 [Homo sapiens]
Synonyms	tumor necrosis factor receptor superfamily, member 4; OX40; ACT35; CD134; TXGP1L; TNFRSF4; tax-transcriptionally activated glycoprotein 1 receptor; lymphoid activation antigene ACT35; OX40 cell surface antigen; OX40 homologue; CD134 antigen; ATC35 antigen; OX40 antigen; OTTHUMP00000001522; ACT35 antigen;

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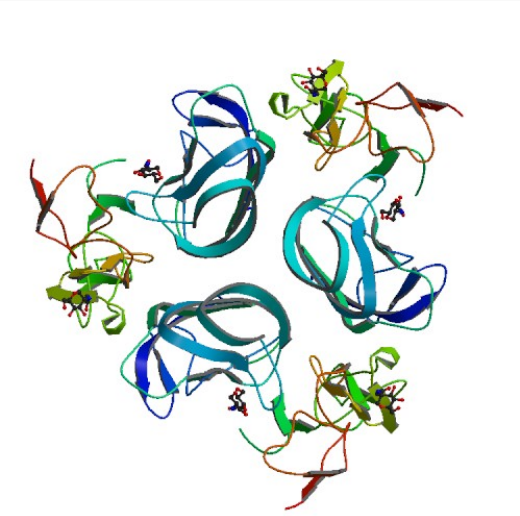
	OX40L receptor; TAX transcriptionally-activated glycoprotein 1 receptor
Gene ID	7293
mRNA Refseq	NM_003327
Protein Refseq	NP_003318
MIM	600315
UniProt ID	P43489
Chromosome Location	1p36
Pathway	Cytokine-cytokine receptor interaction
Function	protein binding; receptor activity; tumor necrosis factor receptor activity
PDB rendering based on 2hev.	

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