

Active Recombinant Canine TNFSF4 Protein, His-tagged

Cat. No. TNFSF4-11134C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Canine OX40 Ligand Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 51 - Tyr 183 (Accession # E2RP79). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: His
Species	Canine
Source	HEK293
ProteinLength	51-183 aa
Description	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.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Canine OX40 Ligand Protein, His Tag at 5 µg/mL (100 µL/well) can bind Canine OX40 Protein, Fc Tag with a linear range of 0.1-4 ng/mL.

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Molecular Mass	The protein has a calculated MW of 48.2 kDa. The protein migrates as >180 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 0.1 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TNFSF4 tumor necrosis factor (ligand) superfamily, member 4 [<i>Canis lupus familiaris</i>]
Official Symbol	TNFSF4
Synonyms	TNFSF4; tumor necrosis factor (ligand) superfamily, member 4; tumor necrosis factor ligand superfamily member 4; tumor necrosis factor (ligand) superfamily, member 4 (tax-transcriptionally activated glycoprotein 1, 34kDa);
Gene ID	490339
UniProt ID	E2RP79

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