

# Recombinant Human CD40L/TNFSF5 Protein (Human Cells)



Catalog Number:PKSH032214

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

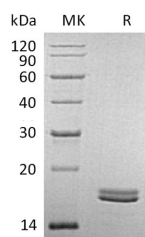
## Description

<b>Synonyms</b>	CD40 Ligand;CD40-L;T-Cell Antigen Gp39;TNF-Related Activation Protein;TRAP;Tumor Necrosis Factor Ligand Superfamily Member 5;CD154;CD40 LG;CD40L;TNFSF5;TRAP;hCD40L;HIGM1;IGM;IMD3;T-BAM;TNFSF5;TRAP
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 113-Leu261
<b>Accession</b>	P29965
<b>Calculated Molecular Weight</b>	16.2 kDa
<b>Observed molecular weight</b>	16-18 kDa
<b>Tag</b>	None
<b>Bioactivity</b>	Loaded Human CD40-Fc on Protein A Biosensor, can bind Human CD40L with an affinity constant of 3.29 nM as determined in BLI assay.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 200mM NaCl, 0.1mM EDTA, pH 7.0. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

CD40 Ligand (CD40LG) is a type II transmembrane glycoprotein that belongs to the TNF superfamily. Like other TNF superfamily members; CD40LG exists as a trimer in membrane bound and soluble form; both of which are bioactive. CD40LG is a ligand for CD40; its ligation also initiates signal transduction in CD40LG expressing cells. CD40LG is a

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differentiation antigen that is expressed on the surface of T-cells. It stimulates B-cell proliferation and secretion of all immunoglobulin isotypes in the presence of cytokines. CD40LG has been shown to induce cytokine production and tumoricidal activity in peripheral blood monocytes. It also co-stimulates proliferation of activated T-cells and this is accompanied by the production of IFN-gamma; TNF-alpha; and IL2.

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