

**CHASELECTION****Recombinant Human CD40 Ligand, Tag Free**

货号(Catalog Number): CY095FXXXX(L)

**别名(synonym):**

CD154 antigen; CD154; CD40 antigen ligand; CD40 Ligand; CD40L; CD40-L; gp39; hCD40L;

**来源(Source):** Human embryonic kidney cell, HEK293-derived human CD40 Ligand/TNFSF5 protein**蛋白结构 (Structure):**

该蛋白不含标签

**基因 ID:** P29965**氨基酸序列:**

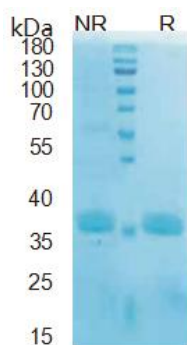
Gly116-Leu261

**分子量大小(MW):**

15.8 kDa (Monomer)

**纯度 (Purity):**

&gt; 95%, determined by SDS-PAGE

**SDS-PAGE**

4 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

**内毒素含量 (Endotoxin):**

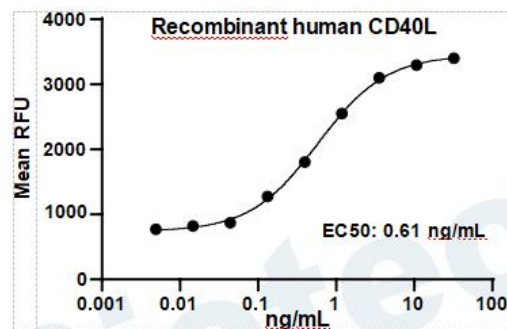
&lt;0.010 EU per 1 ug of the protein by the LAL method

**制剂(Formulation):**

Solution protein.

Dissolved in sterile PBS buffer.

This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.

**活性检测 (Biological Activity):**

Recombinant human CD40 Ligand stimulates cell proliferation using the enriched human B cells in the presence of IL-4.

**储存与运输(Storage):**

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 °C as supplied.

**产品背景介绍 (Production)**

CD40 Ligand(CD40L),also known as TNFSF, CD154, TRAP, and gp39,is a 34-39 kDa type II transmembrane glycoprotein that belongs to the TNF superfamily. Mature human CD40 Ligand consists of a 22 amino acid (aa) cytoplasmic domain, a transmembrane segment, and an 215 aa extracellular region . The extracellular domain of human CD40 Ligand shares 74% and 76% aa sequence identity with mouse and rat CD40 Ligand, respectively. Similar to other TNF superfamily members, CD40 Ligand forms a bioactive homotrimer, both as membrane bound and soluble forms. The 18 kDa soluble form (aa 113-261) arises from proteolytic processing. Mutation and alternative splicing generate additional forms of CD40



Ligand that are often truncated or non-trimerizable.

CD40 Ligand is expressed on platelets, as well as on activated T cells and B cells, basophils, eosinophils, fibroblasts, mast cells, monocytes, natural killer cells, vascular endothelial cells, and smooth muscle cells.

CD40 Ligand binds to CD40, which is expressed on the surface of B cells, dendritic cells, macrophages, monocytes, platelets, endothelial, and epithelial cells.

The interaction of CD40 Ligand with CD40 initiates signaling in both CD40 and CD40 Ligand expressing cells. CD40 ligation by CD40 Ligand promotes B cell activation and T cell-dependent humoral responses.

CD40 Ligand dysregulation on T cells and antigen presenting cells contributes to the immune deficiency associated with HIV infection and AIDS. It is also implicated in the pathology of multiple cardiovascular diseases including atherosclerosis, atherothrombosis, and restenosis.

