

Datasheet for ABIN6699581

CD40 Ligand Protein (CD40LG)



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1 Image

Overview

Quantity:	10 µg
Target:	CD40 Ligand (CD40LG)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human CD40 Ligand Recombinant Protein (Animal Free)
Purification:	CD40 Ligand is produced with no animal-derived raw products, animal free equipment and animal free protocols. Purity was determined to be greater than 98% as determined by analysis by HPLC, UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-PAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Grade:	Animal-Free
Biological Activity Comment:	The activity is tested by HEK-blue™ CD40L Activity. Acceptable Level $<50\text{ng/mL}$, $>2.0 \times 10^4$ units/mg. Additionally testing by ELISA: IL-8 production by human PBMCs.

Target Details

Target:	CD40 Ligand (CD40LG)
Alternative Name:	CD40LG (CD40LG Products)

Target Details

Background:	<p>Synonyms: TNFSF5, TRAP, CD154, gp39, T-BAM</p> <p>Background: CD40 Ligand (CD40-L), or CD154, is a membrane glycoprotein and differentiation antigen expressed on the surface of T cells. The CD40 Ligand stimulates B cell proliferation and secretion of all immunoglobulin isotypes in the presence of cytokines. CD40 Ligand 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-γ, TNF-α, and IL-2. Recombinant human CD40 Ligand is a non-glycosylated protein, containing 149 amino acids, with a molecular weight of 16.3 kDa.</p>
UniProt:	P29965
Pathways:	NF-kappaB Signaling , Production of Molecular Mediator of Immune Response , Cancer Immune Checkpoints

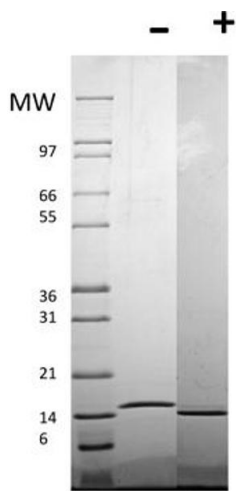
Application Details

Application Notes:	<p>Other: User Optimized</p> <p>Application_Note: CD40 Ligand Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-CD40 Ligand in immunological assays.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	<p>Reconstitution_Buffer: Restore with deionized water (or equivalent)</p> <p>Reconstitution_Volume: 10 μL (10-100 μL)</p>
Buffer:	<p>Buffer: 0.01 M Sodium Phosphate, pH 7.5</p> <p>Stabilizer: None</p>
Preservative:	Without preservative
Storage:	4 °C, -20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

Expiry Date: 6 months



SDS-PAGE

Image 1. SDS-PAGE of Human CD40 Ligand Recombinant Protein (Animal Free) SDS-PAGE of Human AF CD40 Ligand Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human AF CD40 Ligand in non-reducing conditions . Lane 3: 1 µg Human AF CD40 Ligand in reducing conditions (+). Human AF CD40 Ligand has a predicted MW of 16.3 kDa.