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## 32-12021: Human CD40-Ligand

 Gene :
 CD40LG

 Gene ID :
 959

 Uniprot ID :
 P29965

Alternative Name: CD40L, TNFSF5, TRAP, T-cell antigen Gp39, TNF-related activation protein, Tumor necrosis factor

ligand superfamily member 5

## **Description**

Source: Genetically modified E.coli.

Predicted MW: Monomer, 16.3 kDa (149 aa)

CD40-Ligand, or CD154, is a membrane glycoprotein and differentiation antigen that is expressed on the surface of T cells, monocytes, basophils, eosinophils, platelets, dendritic cells, and endothelial cells. CD40-Ligand binds and activates the CD40 receptor on antigen-presenting cells. CD40-Ligand stimulates B cell proliferation, immunoglobulin class switching, and antibody secretion. CD40-Ligand also induces cytokine production and tumoricidal activity in peripheral blood monocytes. CD40-Ligand is a co-stimulator of activated T cell proliferation and inflammatory protein production.

## **Product Info**

**Amount:** 50 μg / 100 μg

**Purification:** Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium

**Content:** phosphate, pH 7.5

Sterile water at 0.1 mg/mL

**Storage condition :** Store at -20°C

Amino Acid: MQKGDQNPQI AAHVISEASS KTTSVLQWAE KGYYTMSNNL VTLENGKQLT VKRQGLYYIY AQVTFCSNRE

ASSOAPFIAS LWLKSPGRFE RILLRAANTH SSAKPCGOOS IHLGGVFELO PGASVFVNVT DPSQVSHGTG

**FTSFGLLKL** 

## **Application Note**

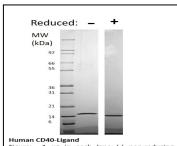
**Endotoxin:** Less than 0.1  $ng/\mu g$  (1  $IEU/\mu g$ ) as determined by LAL test.

Biological Activity was determined by Activity of HEK-CD40L cells at ED50 <= 50 ng/mL;  $>= 2.0 \times 10^4$  units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.



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Human CD40-Ligand
Figure: 1 ug in each lane (-) non-reducing
conditions and (+) reducing conditions in a 420% Tris-Glycine gel, stained with Coomassie
Blue. Human CD40 Ligand has a predicted MW
of 16.3 kDa.

