

## 32-12022: Human CD40-Ligand (AF)

**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 6

### 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  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** MQKGDQNPQI AAHVISEASS KTTSVLQWAE KGYTMSNNL VTLENGKQLT VKRQGLYYIY AQVTFCNRE  
ASSQAPFIAS LWLKSPGRFE RILLRAANTH SSAKPCGQQS IHLGGVFELQ PGASVFNVT DPSQVSHGTG  
FTSFGLLKL

### Application Note

**Endotoxin:** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Biological Activity was determined by Activity of HEK-CD40L cells at  $\text{ED}_{50} \leq 50 \text{ ng/mL}$  ;  $\geq 2.0 \times 10^4 \text{ units/mg}$  .  
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  $-80^{\circ}\text{C}$  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 vialled to compensate for this loss.

