

GFH25 Recombinant Human CD40 Ligand

Description

CD40 Ligand 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.

Length	149 aa
Molecular Weight	16.3 kDa
Source	E. coli
Accession Number	P29965
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

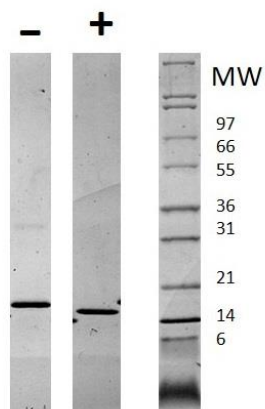
Specifications

Alternative Names	CD40 antigen ligand, CD40L, CD40-L, TNFSF5, TRAP, CD154, CD154 antigen, gp39, T-cell antigen Gp39, T-BAM, IGM, TRAP, HIGM1, IMD3, tumor necrosis factor ligand superfamily member 5, T-B cell-activating molecule, TNF-related activation protein
Biological Activity	Human CD40 Ligand is fully biologically active when compared to standard. The activity is determined by the activity of HEK-blue™ CD40 Ligand and it is typically less than 50 ng/ml. This corresponds to an expected specific activity of 2.0 x 10 ⁴ units/mg.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MQKGDQNPQI AAHVISEASS KTTSVLQWAE KGYTMSNNL VTLENGKQLT VKRQGLYYIY AQVTFCSNRE ASSQAPFIAS LWLKSPGRFE RILLRAANTH SSAKPCGQQS IHLGGVFELQ PGASVFNVT DPSQVSHGTG FTSFGLLKL

Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human CD40 Ligand has a predicted Mw of 16.3 kDa.