

## GFM10 Recombinant Mouse 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.

|                         |   |
|-------------------------|---|
| <b>Length</b>           | 149 aa  |
| <b>Molecular Weight</b> | 16.4 kDa  |
| <b>Source</b>           | E. coli   |
| <b>Accession Number</b> | P27548  |
| <b>Purity</b>           | ≥95% determined by reducing and non-reducing SDS-PAGE |

### Specifications

|                            |  |
|----------------------------|--|
| <b>Alternative Names</b>   | 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                          |
| <b>Biological Activity</b> | Mouse 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 <sup>4</sup> units/mg. |
| <b>Endotoxin Level</b>     | ≤1.00 EU/μg as measured by kinetic LAL   |
| <b>Formulation</b>         | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM arginine, pH 7.5  |
| <b>AA Sequence</b>         | MQRGDEDPQI AAHVSEANS NAASVLQWAK KGYTMSNL VMLENGKQLT VKREGLYYVY<br>TQVTFCSNRE PSSQRPFIVG LWLKPSSGSE RILLKAANTH SSSQLCEQQS VHLGGVFELQ<br>AGASVFNVT EASQVIHRVG FSSFGLLKL  |

### Preparation and Storage

|                              |   |
|------------------------------|---|
| <b>Reconstitution</b>        | 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. |
| <b>Stability and Storage</b> | 12 months from date of receipt when stored at -20°C to -80°C as supplied.<br>1 month when stored at 4°C after reconstituting as directed.<br>3 months when stored at -20°C to -80°C after reconstituting as directed.   |