Product Name: Recombinant Mouse CD40L (N-6His)
Catalog #: PHM1865

Summary

Name	CD40 Ligand/CD40L/TNFSF5/CD154/T-cell antigen Gp39/gp39/TNF-related activation protein/TRAP/Tumor Necrosis Factor Ligand Superfamily Member 5/CD40LG
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Mouse CD40 Ligand is produced by our Mammalian expression system and the target gene encoding Met112-Leu260 is expressed with a 6His tag at the N-terminus.
Accession #	P27548
Host	Human Cells
Species	Mouse
Predicted Molecular Mass	18.8 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 200mM NaCl, 0.1mM EDTA, pH 7.0.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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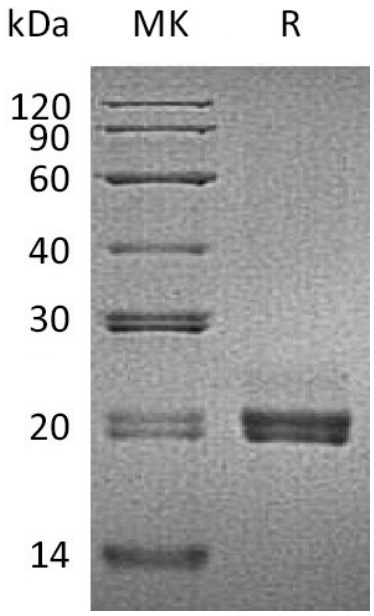

Alternative Names

CD40 Ligand; CD40LG;HIGM1; T-B cell-activating molecule; T-BAM; TNFSF5; tumor necrosis factor (ligand) superfamily member 5; Tumor necrosis factor ligand superfamily member 5

Background

CD40 Ligand, also known as TNFSF5, CD154, is a type II transmembrane glycoprotein member of the TNF superfamily. Mature mouse CD40 Ligand consists of a 22 amino acid (aa) cytoplasmic domain, a transmembrane segment, and a 214 aa extracellular region. CD40 Ligand is expressed as a homotrimer on platelets and activated T cells and B cells. It is up/xadregulated following stimulation of basophils, eosinophils, fibroblasts, mast cells, monocytes, natural killer cells, vascular endothelial cells, and smooth muscle cells. CD40 Ligand binds and activates CD40, which is expressed on the surface of B cells, dendritic cells,macrophages, monocytes, platelets, endothelial cells, and epithelial cells. Monomeric, dimeric, and trimeric forms of soluble CD40 Ligand bind to oligomeric CD40 on cell membranes. CD40 ligation by CD40 Ligand promotes B cell activation and T cell/xaddependent humoral responses. CD40 Ligand dysregulation on T cells and antigen presenting cells contributes to the immune deficiency associated with HIV infection and AIDS. It is also implicated in the pathology of multiple cardiovascular diseases including atherosclerosis, atherothrombosis, and restenosis.

Note

For Research Use Only , Not for Diagnostic Use.