

Bioactive

CD40LG (Human) Recombinant Protein

Catalog # P9073

Size 2 x 10 ug

Specification

Product Description	Human CD40LG (P29965, 113 a.a. - 261 a.a.) partial-length recombinant protein with His tag at N-Terminus expressed in <i>Escherichia coli</i> .
Sequence	MGSSHHHHHHSSGLVPRGSHMQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSNNLVTL NGKQLTVKRQGLYYIAQVTFCSNREASSQAPFIASLCLKSPGRFERILLRAANTHSSAKPCGQQSI HLGGVFELQPGASVFNVTDPQSQVSHGTGFTSFGLLKL
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	18.3
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 95% by SDS-PAGE.
Activity	Measured by the binding ability in a functional ELISA with Human CD40/TNFRSF5.
Storage Buffer	20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 1mM DTT and 40% glycerol.
Storage Instruction	Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — CD40LG

Entrez GeneID

[959](#)

Protein Accession#	P29965
Gene Name	CD40LG
Gene Alias	CD154, CD40L, HIGM1, IGM, IMD3, T-BAM, TNFSF5, TRAP, gp39, hCD40L
Gene Description	CD40 ligand
Omim ID	300386 308230
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is expressed on the surface of T cells. It regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated with hyper-IgM syndrome. [provided by RefSeq]
Other Designations	CD40 antigen ligand OTTHUMP00000024130 T-B cell-activating molecule TNF-related activation protein tumor necrosis factor (ligand) superfamily member 5

Pathway

- [Allograft rejection](#)
- [Asthma](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Cytokine-cytokine receptor interaction](#)
- [Primary immunodeficiency](#)
- [Systemic lupus erythematosus](#)
- [T cell receptor signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)

- [Bronchiolitis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Stenosis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Disease Progression](#)
- [Drug Eruptions](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Immunologic Deficiency Syndromes](#)
- [Infant](#)
- [Lupus Erythematosus](#)
- [Malaria](#)
- [Metabolic Syndrome X](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Pemphigus](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)

- [Renal Insufficiency](#)
- [Respiratory Syncytial Virus Infections](#)
- [Severe Combined Immunodeficiency](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Werner syndrome](#)