Recombinant Human CD40 Ligand (CD40LG)

Cat No:HR2R1247

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	CD40LG
Gene ID	959
Accession	P29965
Alternative Name	Soluble CD40 Ligand, Tumor necrosis factor ligand superfamily member 5, TNFSF5, TNF-related activation protein, TRAP, CD154, gp39, T-BAM, CD40, T cell antigen Gp39, CD-40L, CD_antigen=CD154
Species	Human
Source	E. coli
Description	CD40LG protein is expressed on all B lymphocytes during various stages of development, activated T cells and monocytes, follicular dendritic cells, thymic epithelial cells, and various carcinoma cell lines. It is expressed on most mature B cell malignancies and on some early B cell acute lymphocytic leukemias. Human CD40LG has been found to be the receptor for a protein involved in an X-linked immunodeficiency syndrome. Based on its homology with other members of the TNF ligand protein superfamily, CD40LG is also referred to also as TNFSF5. The soluble form of CD40LG is generated by the intracellular proteolytic processing of the full length CD40LG. Recombinant Human CD40LG is a 17 kDa protein that represents the soluble segment of full length CD40LG and encompasses the receptor binding TNF-like domain.
Functions	The ED(50) was determined by the dose-dependent stimulation of IL-8 production by human PBMC and was found to be in the range of 5-20 ng/mL.
Formulation	CD40 ligand was lyophilized from a 0.2 ?m filtered PBS solution pH 7.0.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	16
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.