

Recombinant Human CD40LG Protein, Tag Free

Cat. No. CD40LG-30H Lot. No. (See product label)

SPECIFICATION

Product Overview

The Human CD40 Ligand yeast-derived recombinant protein is not tagged and is naturally endotoxin-free.

Species

Human

Source

Yeast

Description

CD40 Ligand (CD40LG) is a transmembrane protein that is a member of the TNF superfamily. In addition to existing in a membrane bound form, CD40LG can also be released as a soluble molecule (sCD40LG), which has been shown to have biological functions. CD40 interacts with CD40 ligand, which is predominantly expressed on activated CD4+ T-cells. CD40LG is transiently expressed on activated T-cells and plays a crucial role in B-cell function. Activated T-cells expressing CD40LG can also interact with CD40 on endothelial cells to induce production of inflammatory cytokines. The transient expression of CD40LG allows T-cells to stimulate selected CD40-bearing cells to participate in the immune response. Increased levels of sCD40LG have been measured in patients with SLE, RA, inflammatory bowel diseases, systemic sclerosis, and Sjogren's syndrome.

AASequence

MQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSNNLVTLENGKQLTVKRQGL
YYIYAQVTFCSNREASSQAPFIASLCLKSPGRFERILLRAANTHSSAKPCGQQSIHLG
GVFELQPGASVFNVTDPQSQVSHGTGFTSFGLLKL

Molecular Mass

16.2 kDa

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Endotoxin	Naturally endotoxin-free
Purity	Greater than 98% as visualized by SDS-PAGE analysis.
Application	Cell Culture, ELISA Standard, ELISpot Control, Western Blot Control
Note	For research use only.
Storage	At -20 centigrade

GENE INFORMATION

Gene Name	CD40LG CD40 ligand [Homo sapiens (human)]
Official Symbol	CD40LG
Synonyms	CD40LG; CD40 ligand; IGM; IMD3; TRAP; gp39; CD154; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L; CD40 ligand; CD40 antigen ligand; CD40-L; T-B cell-activating molecule; T-cell antigen Gp39; TNF-related activation protein; tumor necrosis factor (ligand) superfamily member 5
Gene ID	959
mRNA Refseq	NM_000074
Protein Refseq	NP_000065
MIM	300386
UniProt ID	P29965

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