

## Recombinant Human CD40LG, His-tagged

**Cat. No.** CD40LG-27811TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length soluble Human CD40LG with an N terminal His tag; 169 amino acids including tag, predicted MWt: 18.3kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	149 amino acids
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	18.300kDa inclusive of tags
<b>Tissue specificity</b>	Specifically expressed on activated CD4+ T-lymphocytes.
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 40% Glycerol, 0.2M Sodium chloride, 20mM Tris

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	HCl, 1mM DTT, pH 8.0
<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	MGSSHHHHHSSGLVPRGSHMQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTT MSNNLVTLENGKQLTVKRQGLYYIYAQVTFCSNREASSQAPFIASLCLKSPGRFERIL LRAANTHSSAKPCGQQSIHLGGVFELQPGASVFNVTDPSSQVSHGTGFTSFGLLKL
<b>Sequence Similarities</b>	Belongs to the tumor necrosis factor family.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">CD40LG CD40 ligand [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">CD40LG</a>
<b>Synonyms</b>	CD40LG; CD40 ligand; HIGM1, IMD3, TNFSF5, tumor necrosis factor (ligand) superfamily, member 5 (hyper IgM syndrome); CD40 antigen ligand; CD40L; CD154; gp39; hCD40L; hyper IgM syndrome; T B cell activating molecule; TNF related activation protein; TRAP;
<b>Gene ID</b>	<a href="#">959</a>
<b>mRNA Refseq</b>	<a href="#">NM_000074</a>
<b>Protein Refseq</b>	<a href="#">NP_000065</a>
<b>MIM</b>	<a href="#">300386</a>

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<b>Uniprot ID</b>	P29965
<b>Chromosome Location</b>	Xq26
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem;
<b>Function</b>	CD40 receptor binding; cytokine activity; tumor necrosis factor receptor binding;

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