

## 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<br>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> | MGSSHHHHHSSGLVPRGSHMQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYT<br>MSNNLVTLENGKQLTVKRQGLYYIYAQVTFCSNREASSQAPFIASLCLKSPGRFERIL<br>LRAANTHSSAKPCGQQSIHLGGVFELQPGASVFNVTDPSSQVSHGTGFTSFGLLKL                                                                               |
| <b>Sequence Similarities</b>    | Belongs to the tumor necrosis factor family.                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>                | CD40LG CD40 ligand [ Homo sapiens ]                                                                                                                                                                                                                           |
| <b>Official Symbol</b>          | CD40LG                                                                                                                                                                                                                                                        |
| <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>                  | 959                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>              | NM_000074                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>           | NP_000065                                                                                                                                                                                                                                                     |
| <b>MIM</b>                      | 300386                                                                                                                                                                                                                                                        |

|                            |                                                                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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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