

## CD40 Ligand/TNFSF5 Active Protein | CD40 active protein

Recombinant human CD40 Ligand/TNFSF5 protein

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA48396</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

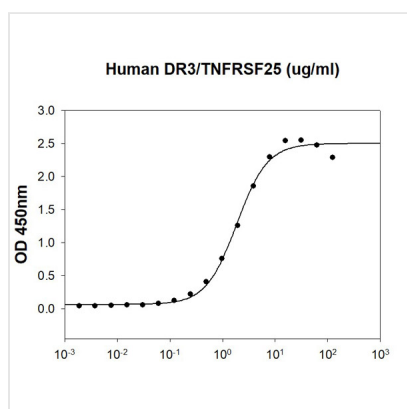
### PRODUCT SYNONYMS

CD40 Ligand/TNFSF5; Recombinant human CD40 Ligand/TNFSF5 protein; CD40 ligand; CD154; CD40L; gp39; hCD40L; HIGM1; IGM; IMD3; T-BAM; TNFSF5; TRAP; CD40 active protein

### PRODUCT SPECIFICATIONS

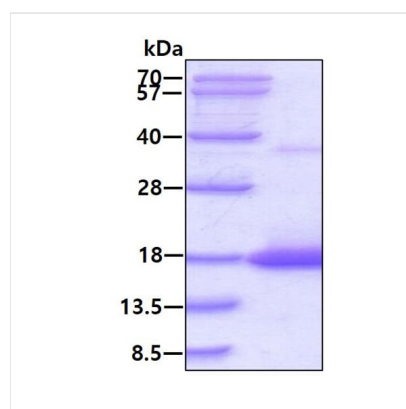
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|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | E Coli                                                                                                                                                                  |
| Purity/Purification                             | >95% by SDS-PAGE                                                                                                                                                        |
| Form/Format                                     | Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 40% glycerol, 0.2M NaCl                                                                                     |
| Concentration                                   | 0.5mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                 |
| Sequence Positions                              | 113-261aa                                                                                                                                                               |
| Sequence                                        | MQKGDQNP QIAAHVISEA SSKTTSVLQW AEKGYTMSN NLVTLENGKQ LTVKRQGLYY IYAQVTFCNS<br>REASSQAPFI ASLCLKSPGR FERILLRAAN THSSAKPCGQ QSIHLGGVFE LQPGASVFN VTDPQVSHG<br>TGFTSFGLLK L |
| Applicable Applications for CD40 active protein | Bioactivity, SDS-PAGE                                                                                                                                                   |
| Endotoxin                                       | <1 EU per 1ug of protein (determined by LAL method)                                                                                                                     |
| Species                                         | Human                                                                                                                                                                   |
| Tag                                             | His-Tag                                                                                                                                                                 |
| Bioactivity                                     | Measured by its binding ability in a functional ELISA with Human CD40/TNFRSF5                                                                                           |
| Preparation and Storage                         | Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.           |

### IMAGES



#### Bioactivity

Human CD40 Ligand/TNFSF5 is coated at 5 ug/ml (100 ul/well) can bind Human CD40/TNFRSF5 (CAT# ATGP4007) in a Functional ELISA assay.



#### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain Lane 1 : reducing condition Lane 2 : non-reducing condition

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CD40 active protein | CD40 ligand, also known as CD40LG, is a member of the TNF superfamily and is expressed on activated T cells. CD40LG is expressed as a soluble cytokine as well as a homotrimeric type II transmembrane protein. It has been reported to be important for B cell costimulation following binding of its receptor, CD40. Mutations in the gene encoding for CD154 are implicated in hyper-IgM immunodeficiency syndrome type 1. Recombinant human CD40LG protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques. |
| Product Categories/Family for CD40 active protein   | Immunology; Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| References                                          | Gordon J., et al. (1995) Blood Rev. 9:53-56. Cheng G., et al. (1995) Science. 267:1494-1498.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| NCBI GI #                        | 4557433                                                           |
| NCBI GeneID                      | 959                                                               |
| NCBI Accession #                 | NP_000065                                                         |
| NCBI GenBank Nucleotide #        | NM_000074.2                                                       |
| UniProt Accession #              | P29965                                                            |
| Molecular Weight                 | 18.3 kDa (169aa), confirmed by MALDI-TOF                          |
| NCBI Official Full Name          | CD40 ligand                                                       |
| NCBI Official Synonym Full Names | CD40 ligand                                                       |
| NCBI Official Symbol             | CD40LG                                                            |
| NCBI Official Synonym Symbols    | IGM; IMD3; TRAP; gp39; CD154; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L |
| NCBI Protein Information         | CD40 ligand                                                       |
| UniProt Protein Name             | CD40 ligand                                                       |
| UniProt Gene Name                | CD40LG                                                            |
| UniProt Synonym Gene Names       | CD40L; TNFSF5; TRAP; CD40-L; TRAP                                 |
| UniProt Entry Name               | CD40L_HUMAN                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.