

# Active Recombinant Human CD40LG Protein (116-261), N-FLAG tagged, Certified Serum Grade

Cat. No. CD40LG-12H Lot. No. (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | <p>Recombinant certified Serum Grade human CD40L (aa 116-261) fused at the N-terminus to mouse ACRP30headless (aa 18-111) and a FLAG<sup>®</sup>-tag was expressed in CHO.</p> <p>Certified Serum Grade: Produced using certified high-quality FBS grade serum. Specifications of FBS include Traceability/Source, Sterile Filtered, Virus, Mycoplasma &amp; Endotoxin Tested, Osmolality and Cell Culture Tested, Inactivation by <math>\gamma</math>-Irradiation.</p> |
| <b>Species</b>          | Human   |
| <b>Source</b>           | CHO   |
| <b>ProteinLength</b>    | 116-261   |
| <b>Description</b>      | <p>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.</p>  |
| <b>Form</b>             | Lyophilized   |
| <b>Bio-activity</b>     | <p>Induces B cells activation (as demonstrated by dose-dependent upregulation of CD86) (ED50: &lt; 1 ng/mL). B cell expansion online protocol available.</p>  |
| <b>Molecular Mass</b>   | ~35-40 kDa (SDS-PAGE)   |

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|                       |  |
|-----------------------|--|
| <b>Endotoxin</b>      | < 0.01 EU/μg purified protein (LAL test, Lonza).   |
| <b>Purity</b>         | ≥95 % (SDS-PAGE)   |
| <b>Stability</b>      | Stable for at least 6 months after receipt when stored at -20 centigrade.<br>Working aliquots are stable for up to 3 months when stored at -20 centigrade. |
| <b>Storage</b>        | Short Term Storage: -20 centigrade<br>Long Term Storage: -20 centigrade  |
| <b>Concentration</b>  | 1 mg/mL  |
| <b>Storage Buffer</b> | Contains PBS   |
| <b>Handling</b>       | Avoid freeze/thaw cycles.<br>PBS containing at least 0.1 % BSA should be used for further dilutions.   |
| <b>Shipping</b>       | DRY ICE  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | CD40LG CD40 ligand [ Homo sapiens (human) ]  |
| <b>Official Symbol</b> | CD40LG   |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 959  |

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|----------------|-----------|
| mRNA Refseq    | NM_000074 |
| Protein Refseq | NP_000065 |
| MIM            | 300386    |
| UniProt ID     | P29965    |

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