# Cardiotrophin-Like Cytokine Factor 1 (CLCF1) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Cardiotrophin-like cytokine factor 1 (CLCF1), Recombinant Protein |
| **Full Product Name** | Recombinant Human Cardiotrophin-like cytokine factor 1 (CLCF1) |
| **Product Gene Name** | CLCF1 recombinant protein |
| **Product Synonym Gene Name** | CLCF1 |
| **Sequence** | LNRTGDPGPG PSIQKTYDLT RYLEHQLRSL AGTYLNYLGP PFNEPDFNPP RLGAETLPRA TVDLEVWRSL NDKLRLTQNY EAYSHLLCYL RGLNRQAATA ELRRSLAHFC TSLQGLLGSI AGVMAALGYP LPQPLPGTEP TWTPGPAHSD FLQKMDDFWL LKELQTWLWR SAKDFNRLKK KMQPPAAAVT LHLGAHGF |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 24,087 Da |
| **Sequence Positions** | 28-225, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 607672 |
| **3D Structure** | ModBase 3D Structure for Q9UBD9 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for CLCF1 recombinant protein** | MBS1354291 is a recombinant protein targeting CLCF1. Also known as Recombinant Human Cardiotrophin-like cytokine factor 1 (CLCF1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of CLCF1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLCF1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 261245022 |
| **NCBI GeneID** | 23529 |
| **NCBI Accession #** | NP_001159684.1 |
| **UniProt Primary Accession #** | Q9UBD9 |
| **UniProt Secondary Accession #** | Q6NZA4; B4DNT4 |

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| **UniProt Related Accession #** | Q9UBD9 |
| **GenBank Nucleotide #** | NM_001166212.1 |
| **NCBI Official Full Name** | cardiotrophin-like cytokine factor 1 isoform 2 |
| **NCBI Official Synonym Full Names** | cardiotrophin like cytokine factor 1 |
| **NCBI Official Symbol** | CLCF1 |
| **NCBI Official Synonym Symbols** | CLC; NR6; BSF3; NNT1; BSF-3; CISS2; NNT-1 |
| **UniProt Protein Name** | Cardiotrophin-like cytokine factor 1 |
| **UniProt Synonym Protein Names** | B-cell-stimulating factor 3; BSF-3; Novel neurotrophin-1; NNT-1 |
| **Protein Family** | Cardiotrophin-like cytokine factor |
| **UniProt Gene Name** | CLCF1 |
| **UniProt Synonym Gene Names** | BSF3; CLC; NNT1; BSF-3; NNT-1 |
| **NCBI Protein Information** | cardiotrophin-like cytokine factor 1 |
| **NCBI Summary for CLCF1** | This gene is a member of the glycoprotein (gp)130 cytokine family and encodes cardiotrophin-like cytokine factor 1 (CLCF1). CLCF1 forms a heterodimer complex with cytokine receptor-like factor 1 (CRLF1). This dimer competes with ciliary neurotrophic factor (CNTF) for binding to the ciliary neurotrophic factor receptor (CNTFR) complex, and activates the Jak-STAT signaling cascade. CLCF1 can be actively secreted from cells by forming a complex with soluble type I CRLF1 or soluble CNTFR. CLCF1 is a potent neurotrophic factor, B-cell stimulatory agent and neuroendocrine modulator of pituitary corticotroph function. Defects in CLCF1 cause cold-induced sweating syndrome 2 (CISS2). This syndrome is characterized by a profuse sweating after exposure to cold as well as congenital physical abnormalities of the head and spine. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2009] |
| **UniProt Comments for CLCF1** | Cytokine with B-cell stimulating capability. Binds to and activates the ILST/gp130 receptor. |
| **Research Articles on CLCF1** | **1.** CLF-1, based on its binding site for CLC and on two additional and independent sites for CNTFRalpha and sorLA, is a key player in CLC and CNTFRalpha signaling and turnover. |
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