

Recombinant Human CLCF1, His-tagged

Cat. No. CLCF1-3626H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant human CLCF1 protein, fused to His-tag at N-terminus, was expressed in E.coli (28-225aa). |
| Species | Human |
| Source | Human |
| ProteinLength | 28-225 aa |
| Description | CLCF1, also known as cardiotrophin-like cytokine factor 1, belongs to the interleukin 6 family of cytokines, which are involved in cell signaling through phosphorylation of gp130. CLCF1 has a sequence of 225-amino acids with a 27-aa signal peptide, a molecular mass of 22 kDa in mature form, and the highest homology to cardiotrophin-1 and ciliary neurotrophic factor. CLCF1 can be actively secreted from cells by forming a complex with soluble type I CRLF1 or soluble CNTFR. 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. |
| Form | Liquid. 20mM sodium citrate (pH 3.5), 0.4M Urea, 10% glycerol |
| Molecular Weight | 24.6 kDa (219aa) |
| Purity | > 90% by SDS - PAGE |

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| Concentration | 1 mg/ml (determined by Bradford assay) |
| Sequences of amino acids | MGSSHHHHHH SSGLVPRGSH MLNRTGDPGP GPSIQKTYDL TRYLEHQLRS LAGTYLNYLG PPFNEPDFNP PRLGAETLPR ATVDLEWRS LNDKLRRTQN YEAYSHLLCY LRGLNRQAAT AELRRSLAHF CTSLQGLLGS IAGVMAALGY PLPQPLPGTE PTWTPGPAHS DFLQKMDDFW LLKELQTWLW RSAKDFNRLK KKMQPPAAAV TLHLGAHGF |
| Storage | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |
| Pathways | Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway |
| GENE INFORMATION | |
| Gene Name | CLCF1 cardiostrophin-like cytokine factor 1 [Homo sapiens] |
| Official Symbol | CLCF1 |
| Synonyms | CLCF1; cardiostrophin-like cytokine factor 1; CLC; NR6; BSF3; NNT1; BSF-3; CISS2; NNT-1; novel neurotrophin-1; B-cell stimulating factor 3; B-cell stimulatory factor 3; CRLF1 associated cytokine-like factor 1; neurotrophin-1/B-cell stimulating factor-3; B cell-stimulating factor 3; cold-induced sweating syndrome 2 |
| Gene ID | 23529 |
| mRNA Refseq | NM_001166212 |
| Protein Refseq | NP_001159684 |
| MIM | 607672 |

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| UniProt ID | Q9UBD9 |
| Chromosome Location | 11q13.3 |
| Function | cytokine activity; growth factor activity |

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