

Recombinant Human CLCF1, His-tagged

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

SPECIFICATION

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 LNDKLRLTQN 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 cardiotrophin-like cytokine factor 1 [Homo sapiens]
Official Symbol	CLCF1
Synonyms	CLCF1; cardiotrophin-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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