

Recombinant Human CLCF1, His-tagged

Cat. No. CLCF1-11277H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CLCF1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

Species Human

Source E.coli

ProteinLength 1-225a.a.

Description 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.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name [CLCF1 cardiostrophin-like cytokine factor 1 \[Homo sapiens \]](#)

Official Symbol CLCF1

Synonyms CLCF1; cardiostrophin-like cytokine factor 1; CRLF1 associated cytokine like factor 1; B cell stimulating factor 3; BSF 3; BSF3; CISS2; CLC; cold induced sweating syndrome 2; NNT 1; NNT1; novel neurotrophin 1; NR6; novel neurotrophin-1; B-cell stimulating factor 3; B-cell stimulatory factor 3; B-cell-stimulating factor 3; CRLF1 associated cytokine-like factor 1; neurotrophin-1/B-cell stimulating factor-3; BSF-3; NNT-1;

Gene ID [23529](#)

mRNA Refseq [NM_001166212](#)

Protein Refseq [NP_001159684](#)

MIM [607672](#)

UniProt ID [Q9UBD9](#)

Chromosome Location 11q13.3

Pathway Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway,

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organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;

Function

ciliary neurotrophic factor receptor binding; contributes_to ciliary neurotrophic factor receptor binding; contributes_to cytokine activity; cytokine activity; growth factor activity; protein binding; protein heterodimerization activity; receptor binding;

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