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## Product Data Sheet

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Product Name: CLCF1 Human  
 Cat. No.: GP20133  
 Batch No.: 1

### Product Data

|                     |  |                    |                         |
|---------------------|--|--------------------|-------------------------|
| Purity              | >98%   | Source             | Escherichia Coli.       |
| Physical Appearance | solid  | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Cardiotrophin-like cytokine factor 1; B-cell-stimulating factor 3; BSF-3; Novel neurotrophin-1; NNT-1; CLCF1; BSF3; CLC; NNT1; NR6; CISS2.   |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MLNRTGDPGP GPSIQKTYDL TRYLEHQLRS<br>LAGTYLNYLG PPFNEPDFNP PRLGAETLPR ATVDLEVWRS LNDKLRLTQN<br>YEAYSHLLCY LRGLNRQAAT AELRRSLAHF CTSLQGLLGS IAGVMAALGY<br>PLPQPLPGTE PTWTPGPAHS DFLQKMDDFW LLKELQTWLW RSAKDFNRLK<br>KKMQPPAAAV TLHLGAHGF. |                    |                         |
| Formulation         | CLCF1 protein solution (1mg/ml) containing 20mM sodium citrate (pH 3.5), 0.4M Urea and 10% glycerol.   |                    |                         |

### Introduction

Cardiotrophin-like cytokine factor 1 (CLCF1) is a member of the interleukin 6 family of cytokines, which are involved in cell signaling via phosphorylation of gp130. CLCF1 has a sequence of 225 amino acids with a 27 aa signal peptide, having a molecular mass of 22kDa in the mature form, and the maximum homology to cardiotrophin-1 and ciliary neurotrophic factor. CLCF1 is actively secreted from cells by forming a complex with soluble type I CRLF1 or soluble CNTFR. Defects in the CLCF1 gene cause cold-induced sweating syndrome 2 (CISS2). The CISS2 syndrome is typified by profuse sweating after exposure to cold as well as congenital physical abnormalities of the head and spine.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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CLCF1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 219 amino acids (28-225 a.a) and having a molecular mass of 24.6kDa. CLCF1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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