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Cardiotrophin-Like Cytokine Factor 1, His Tag, human recombinant (rHuCLCF-1-His)

Catalog No: 97427
Lot No: XXXXX
Source: *E. coli*
Synonyms: Cardiotrophin-like cytokine factor 1, B-cell-stimulating factor 3, BSF-3, Novel neurotrophin-1, NNT-1, CLCF1, BSF3, CLC, NNT1, NR6, CISS2

Background

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 22 kDa 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.

Description

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

Physical Appearance

Sterile filtered clear solution.

Formulation

The CLCF1 protein solution (1 mg/ml) containing 20 mM sodium citrate (pH 3.5), 0.4 M urea and 10% glycerol.

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.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MLNRTGDGPG GPSIQKTYDL TRYLEHQLRS LAGTYLNYLG PPFNEPDFNP PRLGAETLPR
ATVDLEVWRS LNDKLRLTQN YEAYSHLLCY LRGLNRQAAT AELRRSLAHF CTSLQGLLGS IAGVMAALGY PLPQPLPGTE
PTWTPGPAHS DFLQKMDDFW LLKELQTLWL RSAKDFNRLK KKMQPAAAV TLHLGAHGF

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