Recombinant human CLF-1/CLC protein

Catalog Number: ATGP1179

PRODUCT INFORMATION

Expression system
E.coli

Domain
28-225aa

UniProt No.
Q9UBD9

NCBI Accession No.
NP_037378

Alternative Names
Cardiotrophin-like cytokine factor 1, BSF-3, BSF3, CISS2, CLC, NNT-1, NNT1, NR6

PRODUCT SPECIFICATION

Molecular Weight
24.6 kDa (219aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM sodium citrate (pH 3.5) 0.4M urea, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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head and spine.

Amino acid Sequence

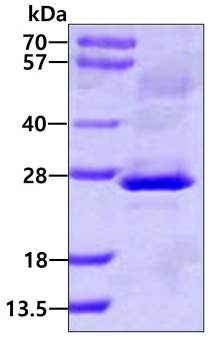
<MGSSHHHHHH SSGLVPRGSH M>LNRTGDPGP GPSIQKTYDL TRYLEHQLRS LAGTYLNYLG PPFNEPDFNP PRLGAETLPR ATVDLEVWRS LNDKLRLTQN YEAYSHLLCY LRGLNRQAAT AELRRSLAHF CTSLQGLLGS IAGVMAALGY PLPQPLPGTE PTWTPGPAHS DFLQKMDDFW LLKELQTWLW RSAKDFNRLK KKMQPPAAAV TLHLGAHGF

General References

Senaldi G., et al. (1999) Proc. Natl. Acad. Sci. u.S.A. 96:11458-11463
Shi Y., et al. (1999) Biochem. Biophys. Res. Commun. 262:132-138

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.