

Recombinant human CAPSL protein

Catalog Number: ATGP0979

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-208aa

UniProt No.

Q8WWF8

NCBI Accession No.

EAW55926

Alternative Names

Calcyphosine-like

PRODUCT SPECIFICATION

Molecular Weight

26.3 kDa (228aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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

CAPSL, also known as Calcyphosine-like protein, is a calcium-binding protein containing two calcium-binding motifs (EF-hands). These conserved domains are found in a superfamily of calcium sensors and calcium signal modulators. Furthermore, the CAPSL gene is in the same linkage disequilibrium (LD) block as the IL7R gene. It was reported association between the CAPSL-IL7R locus and type 1 diabetes. Recombinant human CAPSL protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MAGTARHDRE MAIQAKKLT TATDPIERLR LQCLARGSAG IKGLGRVFRI MDDDNNRTLD
FKEFMKGLND YAVVMEKEEV EELFQRFDKD GNGTIDFNEF LLTLRPPMSR ARKEVIMQAF RKLDKTGDGV ITIEDLREVV
NAKHHPKYQN GEWSEEQVFR KFLDNFDSFY DKDGLVTPEE FMNYYAGVSA SIDTDVYFII MMRTAWKL

General References

Liu S., et al. (2009) Hum Mol Genet. 18(2):358-65.
Santiago JL., et al. (2008) Diabetologia. 51(9):1653-8.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)