

# Recombinant human CAPSL protein

Catalog Number: ATGP0979

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-208aa

### UniProt No.

Q8WWF8

### NCBI Accession No.

EAW55926

### Alternative Names

Calcyphosine-like

## PRODUCT SPECIFICATION

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### 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

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### 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 MAIQAKKKLT 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

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### SDS-PAGE



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

15% SDS-PAGE (3ug)