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# **Recombinant human CAPSL protein**

Catalog Number: ATGP0979

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-208aa

#### **UniProt No.**

O8WWF8

#### **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 MAIQAKKKLT TATDPIERLR LQCLARGSAG IKGLGRVFRI MDDDNNRTLD FKEFMKGLND YAVVMEKEEV EELFQRFDKD GNGTIDFNEF LLTLRPPMSR ARKEVIMQAF RKLDKTGDGV ITIEDLREVY NAKHHPKYQN GEWSEEQVFR KFLDNFDSPY 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)