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# **Recombinant human CAPS protein**

Catalog Number: ATGP0924

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-189aa

#### **UniProt No.**

K7EL21

#### **NCBI Accession No.**

NP 004049

#### **Alternative Names**

Calcyphosine, CAPS1, Calcyphosin

## PRODUCT SPECIFICATION

#### **Molecular Weight**

23.1 kDa (209aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl

#### **Purity**

> 95% 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**

Calcyphosine, also known as CAPS, is a calcium-binding protein containing four EF-hand domains. CAPS is initially identified as thyroid protein p24 that is found in several epithelium and in some cells of the central nervous system. It may play a role in the regulation of ion transport. In thyroid follicular cells, CAPS is synthesized and phosphorylated in response to stimulation by thyrotropin and cAMP agonists. Recombinant human CAPS 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**

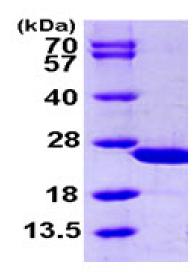
MGSSHHHHHH SSGLVPRGSH MDAVDATMEK LRAQCLSRGA SGIQGLARFF RQLDRDGSRS LDADEFRQGL AKLGLVLDQA EAEGVCRKWD RNGSGTLDLE EFLRALRPPM SQAREAVIAA AFAKLDRSGD GVVTVDDLRG VYSGRAHPKV RSGEWTEDEV LRRFLDNFDS SEKDGQVTLA EFQDYYSGVS ASMNTDEEFV AMMTSAWQL

#### **General References**

El Housni H, et al. (1997) Mol Cell Endocrinol. 135(1):93-7. Halleux P, et al. (1998) J Chem Neuroanat. 15(4):239-50.

# **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

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

