

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

<MGSSHHHHH SSGLVPRGSH> MDAVDATMEK LRAQCLSRGA SGIQGLARFF RQLDRDGSRS LDADEFRQGL
AKLGLVLDQA EAEGVCRKWD RNSGTLGLE EFLRALRPPM SQAREAVIAA AFAKLDRSGD GVVTVDLRLG VYSGRAHPKV
RSGEWTEDEV LRRFLDNFDS SEKDGQVTLA EFQDYSGVS ASMNTDEEFV AMMTSAWQL

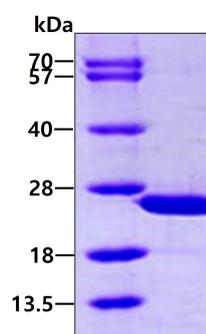
General References

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



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