

Recombinant Human CAPS, His-tagged

Cat. No. CAPS-3477H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CAPS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl
Molecular Weight	23.1kDa (209aa), confirmed by MALDI-TOF
Purity	> 95% by SDS - PAGE
Concentration	1mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MDAVDATMEK LRAQCLSRGA SGIQGLARFF RQLDRDGSRS LDADEFQGL AKLGLVLDQA EAEGVCRKWD RNSGTLGLE EFLRALRPPM SQAREAVIAA AFAKLDRSGD GVVTVDLDRG VYSGRAHPKV

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RSGEWTEDEV LRRFLDNFDS SEKDGQVTLA EFQDYYSQVS ASMNTDEEFV
AMMTSAWQL

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

CAPS calcyphosine [Homo sapiens]

Synonyms

Calcyphosine; CAPS1; MGC126562; CAPS; calcyphosine 1; thyroid protein p24

Gene ID

828

mRNA Refseq

NM_004058

Protein Refseq

NP_004049

MIM

114212

UniProt ID

Q13938

**Chromosome
Location**

19p13.3

Function

calcium ion binding

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