

# Recombinant human CAPNS1 protein

Catalog Number: ATGP2681

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

84-268aa

### UniProt No.

P04632

### NCBI Accession No.

NP\_001740

### Alternative Names

Calpain small subunit 1, Calpain, small subunit 1, 30K, CALPAIN4, CANP, CANPS, CAPN4, CDPS, CSS1

## PRODUCT SPECIFICATION

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### Molecular Weight

23.8 kDa (208aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

### 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

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### Description

Calpains are a ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. Calpain families have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. Calpain I and II are heterodimeric with distinct large subunits associated with common small subunits, all of which are encoded by different genes. Recombinant human CAPNS1 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

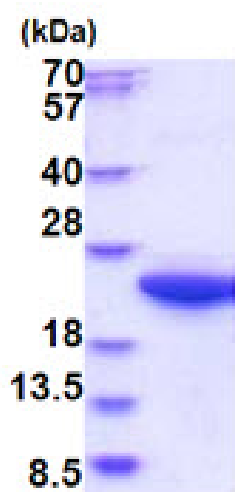
MGSSHHHHHH SSSLVPRGSH MGSRTTHYSNI EANESEEVQR FRRLFAQLAG DDMEVSATEL MNILNKVVTR HPDLKTDGFG  
IDTCRSMVAV MDSDTTGKLG FEEFKYLWNN IKRWQAIYKQ FDTDRSGTIC SSELPGAFEA AGFHLNEHLY NMIIRRYSD  
SGNMDFDNFI SCLVRLDAMF RAFKSLDKDG TGQIQVNIQE WLQLTMYS

## General References

Ohno S., Emori Y, et al. (1986) Nucleic Acids Res. 14:5559-5559

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)