

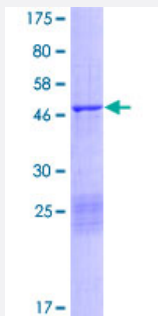
Full-Length

# CAPNS1 (Human) Recombinant Protein (P01)

Catalog # H00000826-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human CAPNS1 full-length ORF ( AAH21933.1, 1 a.a. - 268 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MFLVNSFLKGGGGGGGGGGGLGGGLGNVLGGLISGAGGGGGGGGGGGGGGGGGGGTAMRIL  
GGVISAISEAAAQYNPEPPPPRTHYSNIEANESEEVQRFRRLFAQLAGDDMEVSATELMNILNKVV  
TRHPDLKTDGFGIDTCRSMVAVMDSDDTGKLGFEFEKYLWNNIKRWQAQYKQFDTRSGTICSEL  
PGAFAEAGFHLNEHLYNMIIRYSDESGNMDFDNFISCLVRLDAMFRAFKSLDKDGTGQIQVNIQE  
WLQLTMFS

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

54.7

### Interspecies Antigen Sequence

Mouse (90)

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note**

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — CAPNS1

**Entrez GeneID**[826](#)**GeneBank Accession#**[BC021933.1](#)**Protein Accession#**[AAH21933.1](#)**Gene Name**

CAPNS1

**Gene Alias**

30K, CALPAIN4, CANP, CANPS, CAPN4, CDPS

**Gene Description**

calpain, small subunit 1

**Omim ID**[114170](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. This gene encodes a small subunit common to both calpain I and II and is associated with myotonic dystrophy. Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq]

**Other Designations**

calcium-activated neutral proteinase|calcium-dependent protease, small subunit|calpain 4, small subunit (30K)|calpain, small polypeptide

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)