

## Product datasheet for AR51501PU-N

# OriGene Technologies, Inc.

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### CAPNS1 (84-268, His-tag) Human Protein

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** CAPNS1 (84-268, His-tag) human recombinant protein, 0.5 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSRTHYSNI EANESEEVRQ FRRLFAQLAG DDMEVSATEL MNILNKVVTR HPDLKTDGFG IDTCRSMVAV MDSDTTGKLG FEEFKYLWNN IKRWQAIYKQ

FDTDRSGTIC SSELPGAFEA AGFHLNEHLY NMIIRRYSDE SGNMDFDNFI SCLVRLDAMF

RAFKSLDKDG TGQIQVNIQE WLQLTMYS

Tag: His-tag
Predicted MW: 23.8 kDa
Concentration: lot specific

Purity: >95% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1 mM

DTT

**Preparation:** Liquid purified protein

**Protein Description:** Recombinant human CAPNS1 protein, fused to His-tag at N-terminus, was expressed in E.coli

and purified by using conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid

repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** <u>NP 001003962</u>

Locus ID: 826

 UniProt ID:
 P04632

 Cytogenetics:
 19q13.12

Synonyms: CALPAIN4; CANP; CANPS; CAPN4; CDPS; CSS1





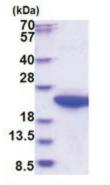
**Summary:** 

This gene is a member of the calpain small subunit family. Calpains are calcium-dependent cysteine proteinases that are widely distributed in mammalian cells. Calpains operate as heterodimers, comprising a specific large catalytic subunit (calpain 1 subunit in Calpain I, and calpain 2 subunit in Calpain II), and a common small regulatory subunit encoded by this gene. This encoded protein is essential for the stability and function of both calpain heterodimers, whose proteolytic activities influence various cellular functions including apoptosis, proliferation, migration, adhesion, and autophagy. Calpains have been implicated in neurodegenerative processes, such as myotonic dystrophy. A pseudogene of this gene has been defined on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

**Protein Families:** 

Druggable Genome, Protease

### **Product images:**



15% SDS-PAGE (3ug)