

Recombinant Human CAPNS1 protein, His & GST-tagged

Cat. No. CAPNS1-1426H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAPNS1 aa. (Met1~Ser268 (Accession # P04632) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Ser268
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 58.3kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>90%
Characteristic	The isoelectric point is 5.1.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

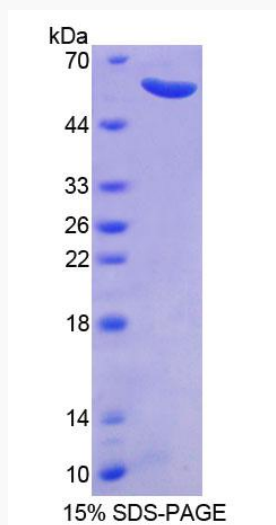
Gene Name	CAPNS1 calpain small subunit 1 [Homo sapiens (human)]
Official Symbol	CAPNS1
Synonyms	CAPNS1; calpain small subunit 1; CANP; CDPS; CSS1; CANPS; CAPN4; CALPAIN4; CANP small subunit; calcium-activated neutral proteinase small subunit; calcium-dependent protease small subunit 1; calcium-dependent protease, small subunit; calpain 4, small subunit (30K); calpain regulatory subunit; calpain, small polypeptide

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Gene ID	826
mRNA Refseq	NM_001003962.2
Protein Refseq	NP_001003962.1
UniProt ID	P04632

SDS-PAGE


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