Recombinant Full Length Human CAPNS1 Protein, GST-tagged

Cat. No. CAPNS1-2827HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CAPNS1 full-length ORF (AAH21933.1, 1 a.a. - 268 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	268 amino acids
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. [provided by RefSeq, Oct 2014]
Molecular Mass	54.7 kDa
AA Sequence	MFLVNSFLKGGGGGGGGGGGLGGGLGNVLGGLISGAGGGGGGGGGGGGGGGG GGGGTAMRILGGVISAISEAAAQYNPEPPPPRTHYSNIEANESEEVRQFRRLFAQLA

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	GDDMEVSATELMNILNKVVTRHPDLKTDGFGIDTCRSMVAVMDSDTTGKLGFEEFK YLWNNIKRWQAIYKQFDTDRSGTICSSELPGAFEAAGFHLNEHLYNMIIRRYSDESG NMDFDNFISCLVRLDAMFRAFKSLDKDGTGQIQVNIQEWLQLTMFS
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CAPNS1 calpain, small subunit 1 [Homo sapiens]
Official Symbol	CAPNS1
Synonyms	CAPNS1; calpain, small subunit 1; CAPN4; calpain small subunit 1; 30K; CANP; CANPS; CDPS; CANP small subunit; calpain regulatory subunit; calpain, small polypeptide; calpain 4, small subunit (30K); calcium-dependent protease, small subunit; calcium-dependent protease small subunit 1; calcium-activated neutral proteinase small subunit; CSS1; CALPAIN4;
Gene ID	826
mRNA Refseq	NM_001003962
Protein Refseq	NP_001003962

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	114170
UniProt ID	P04632

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA