

Recombinant Human CAPNS1, His-tagged

Cat. No. CAPNS1-188H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CAPNS1, 84-268aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	84-268aa
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	23.8kDa (208aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSRTHYSNI EANESEEVQR FRRLFAQLAG DDMEVSATEL MNILNKVVTR HPDLKTDGFG IDTCRSMVAV MDSDTTGKLG FEEFKYLWNN IKRWQAIYKQ FDTDRSGTIC SSELPGAFAEA AGFHLNEHLY NMIIRYSDE SGNMDFDNFI SCLVRLDAMF RAFKSLDKDG TGQIQVNIQE

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	WLQLTMYS
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)
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
MIM	114170
UniProt ID	P04632

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Chromosome Location	19q13.1
Pathway	Integrin-mediated cell adhesion, organism-specific biosystem;
Function	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; protein binding; protein heterodimerization activity;

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