

Recombinant Human CAPN1, His-tagged

Cat. No. CAPN1-27399TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 214-500 of Human Calpain 1 with N terminal His tag; 287 amino acids, 33kDa.
Species	Human
Source	E.coli
ProteinLength	214-500 a.a.
Description	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1. Several transcript variants encoding two different isoforms have been found for this gene.
Conjugation	HIS
Tissue specificity	Ubiquitous.
Form	Lyophilised:Reconstitute with 121 µl distilled water.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

 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

Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	FEDFTGGVTEWYELRKAPSDLYQIILKALERGSLGCSID ISSVLDMEAITFKKLVKGH AYSVTGAKQVNYRGQVVS L IRMRNPWGEVEWTGAWS DSSSEWNNVDPYERDQL RVKMEDGEFWMSFRDFMREFTRLEICNLTPDALKSRTIRKWNTT LYEGTWRRGST AGGCRNYPATFWVNPQFKIRLDETDDP DDYGDRESGCSFVLALMQKHRRRERRF GRDMETIGFAVYE VPPELVGQPAVHLKRDFFLANASRARSEQFINLREVST RFRLP PGEYVVVPST
Sequence Similarities	Belongs to the peptidase C2 family.Contains 1 calpain catalytic domain.Contains 4 EF-hand domains.
GENE INFORMATION	
Gene Name	CAPN1 calpain 1, (mu/l) large subunit [Homo sapiens]
Official Symbol	CAPN1
Synonyms	CAPN1; calpain 1, (mu/l) large subunit; calpain-1 catalytic subunit; CANP; CANPL1; muCANP; muCL;
Gene ID	823
mRNA Refseq	NM_001198868
Protein Refseq	NP_001185797
MIM	114220
Uniprot ID	P07384

Chromosome Location	11q13
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Focal Adhesion, organism-specific biosystem;
Function	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; peptidase activity;

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