

## Recombinant Human CAPN1, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 214-500 of Human Calpain 1 with N terminal His tag; 287 amino acids, 33kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	214-500 a.a.
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	Ubiquitous.
<b>Form</b>	Lyophilised:Reconstitute with 121 µl distilled water.
<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	FEDFTGGVTEWYELRKAPSDLYQIILKALERGSLLGCSID ISSVLDMEAITFKKLVKGH AYSVTGAKQVNYRGQVVSL IRMRNPWGEVEWTGAWSDSSSEWNNVDPYERDQL RVKMEDGEFWMSFRDFMREFTRLEICNLTPDALKSRTIRKWNTT LYEGTWRRGST AGGCRNYPATFWVNPQFKIRLDETDDP DDYGDRESGCSFVLALMQKHRRRERRF GRDMETIGFAVYE VPPELVGQPAVHLKRDFFLANASRARSEQFINLREVST RFRLP PGEYVVVPST
<b>Sequence Similarities</b>	Belongs to the peptidase C2 family. Contains 1 calpain catalytic domain. Contains 4 EF-hand domains.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CAPN1 calpain 1, (mu/l) large subunit [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">CAPN1</a>
<b>Synonyms</b>	CAPN1; calpain 1, (mu/l) large subunit; calpain-1 catalytic subunit; CANP; CANPL1; muCANP; muCL;
<b>Gene ID</b>	<a href="#">823</a>
<b>mRNA Refseq</b>	<a href="#">NM_001198868</a>
<b>Protein Refseq</b>	<a href="#">NP_001185797</a>
<b>MIM</b>	<a href="#">114220</a>
<b>Uniprot ID</b>	<a href="#">P07384</a>

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

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