

## Recombinant Human CAPN3

Cat. No. CAPN3-27402TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human Calpain 3 with a proprietary tag at the N terminal; Predicted MW 36.63 kDa, inclusive of tag.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	100 amino acids
<b>Description</b>	Calpain, a heterodimer consisting of a large and a small subunit, is a major intracellular protease, although its function has not been well established. This gene encodes a muscle-specific member of the calpain large subunit family that specifically binds to titin. Mutations in this gene are associated with limb-girdle muscular dystrophies type 2A. Alternate promoters and alternative splicing result in multiple transcript variants encoding different isoforms and some variants are ubiquitously expressed.
<b>Molecular Weight</b>	36.630kDa inclusive of tags
<b>Tissue specificity</b>	Isoform I is skeletal muscle specific.
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification

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<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	NKIKAWQKIFKHYD TDQSGTINSYEMRNAVNDAGFHLNNQLYDIITMRYADKHMNID FDSFICCFVRLEGMFRAFHFADKDG DGIKLNVLWLQLTMYA
<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="#">CAPN3 calpain 3, (p94) [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">CAPN3</a>
<b>Synonyms</b>	CAPN3; calpain 3, (p94); LGMD2, LGMD2A; calpain-3; CANP3; nCL 1; p94;
<b>Gene ID</b>	<a href="#">825</a>
<b>mRNA Refseq</b>	<a href="#">NM_000070</a>
<b>Protein Refseq</b>	<a href="#">NP_000061</a>
<b>MIM</b>	<a href="#">114240</a>
<b>Uniprot ID</b>	<a href="#">P20807</a>
<b>Chromosome Location</b>	15q15.1

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<b>Pathway</b>	Integrin-mediated cell adhesion, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem;
<b>Function</b>	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity; signal transducer activity;

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