

Recombinant Human CAPN3

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

SPECIFICATION

Product Overview	Recombinant fragment of Human Calpain 3 with a proprietary tag at the N terminal; Predicted MW 36.63 kDa, inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Isoform I is skeletal muscle specific.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	NKIKAWQKIFKHYDQSGTINSYEMRNAVNDAGFHLNNQLYDIITMRYADKHMNID FDSFICCFVRLEGMFRAFHAFDKDGDGIIKLVLEWLQLTMYA
Sequence Similarities	Belongs to the peptidase C2 family.Contains 1 calpain catalytic domain.Contains 4 EF-hand domains.

GENE INFORMATION

Gene Name	CAPN3 calpain 3, (p94) [Homo sapiens]
Official Symbol	CAPN3
Synonyms	CAPN3; calpain 3, (p94); LGMD2, LGMD2A; calpain-3; CANP3; nCL 1; p94;
Gene ID	825
mRNA Refseq	NM_000070
Protein Refseq	NP_000061
MIM	114240
Uniprot ID	P20807
Chromosome Location	15q15.1

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

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