

Active Native Human Calpain-1

Cat. No. CAPN1-27397TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human Calpain-1 was purified from Human Erythrocyte.
Species	Human
Source	Human Erythrocyte
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.
Form	Frozen in 20 mM imidazole, 5mM β-mercaptoethanol, 1 mM EDTA, 1mM EGTA, 30% glycerol, pH 6.8
Bio-activity	Greater than or equal to 1,000 units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one pmole Suc-LLVY-AMC per minute at 25o C.
Molecular Mass	110,000 Daltons
Purity	Greater than or equal to 95% by SDS-PAGE.
Storage	-70°C or lower

 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

GENE INFORMATION

Gene Name	CAPN1 calpain 1, (mu/l) large subunit [Homo sapiens (human)]
Official Symbol	CAPN1
Synonyms	CAPN1; calpain 1, (mu/l) large subunit; calpain-1 catalytic subunit; CANP; CANPL1; muCANP; muCL; CANP 1; calpain mu-type; micromolar-calpain; calpain-1 large subunit; calpain, large polypeptide L1; calcium-activated neutral proteinase 1; cell proliferation-inducing protein 30; cell proliferation-inducing gene 30 protein
Gene ID	823
mRNA Refseq	NM_001198868
Protein Refseq	NP_001185797
MIM	114220
UniProt ID	P07384
Chromosome Location	11q13
Pathway	Alzheimers disease; Apoptosis; Focal Adhesion
Function	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; protein binding

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