

Active Native Human CAPN1

Cat. No. CAPN1-8448H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Human
Description	Ca ²⁺ -dependent cysteine proteinase with low Ca ²⁺ requirement (half maximal activation = 2 µM). Participates in the ATP release reaction of platelets stimulated with thrombin. Involves in apoptosis activation.
Form	In 20 mM imidazole-HCl, 5 mM β-mercaptoethanol, 1 mM EDTA, 1 mM EGTA, 30% glycerol, pH 6.8.
Bio-activity	>1000 units/mg protein
Molecular Mass	112.0 kDa
Purity	≥95% by SDS - PAGE
Storage	Store at –70°C, stable for at least 1 year as supplied. Avoid freeze/thaw cycles.
Shipping	gel pack

GENE INFORMATION

Gene Name	CAPN1 calpain 1, (mu/I) large subunit [Homo sapiens]
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 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

Official Symbol	CAPN1
Synonyms	CAPN1; calpain 1, (mu/I) 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; CANP1;
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; Integrin-mediated cell adhesion, organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem;
Function	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; peptidase activity; protein binding;