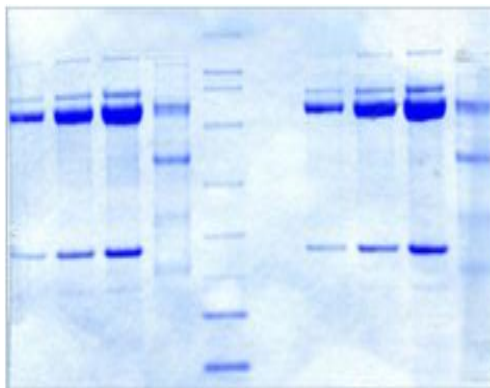


CAPN1, CPNS1

Native Porcine Calpain-1, Erythrocytes

Catalog No.	CNP006A CNP006B	Quantity:	100 µg 1.0 mg
Alternate Names:	Calpain-1 catalytic subunit and Calpain small subunit 1 (Calpain regulatory subunit)		
Description:	Calpain-1 is a calcium activated neutral cysteine protease. It is a heterodimer of a Catalytic 80 kDa subunit and a 30 kDa subunit, which requires 50 µM Ca ²⁺ for half-maximal activity in vitro. Its participation in events such as cell division, signal transduction, and long term potentiation has been suggested. Calpains have also been proposed to play a role in various pathological processes associated with altered metabolism and altered calcium homeostasis.		
UniProt ID	P35750, P04574		
Source:	Porcine erythrocytes		
Molecular Weight:	110 kDa (80 kDa catalytic subunit + 30 kDa regulatory subunit)		
Formulation:	20 mM imidazole-HCl, 5mM β-mercaptoethanol, 1 mM EDTA, 1 mM EGTA, 30% glycerol, pH 6.8		
Purity:	≥ 95% by SDS-PAGE		
Biological Activity:	> 1000 Units/mg One unit is defined as the amount of enzyme that will hydrolyze 1 pmol Suc-LLVY-AMC in 1 minute at 25°C using the Calpain Activity Assay Kit, Fluorogenic (EMD Cat. No, QIA120). Note: one caseinolytic unit=9 fluorogenic units.		
Country of Origin:	USA		
Storage & Stability:	Store unopened at -80°C for up to 1 year. Upon initial thaw, prepare aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.		

SDS-PAGE: 4 - 12% Bis-Tris NuPAGE



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