

Product datasheet

Native pig Calpain 1 protein ab198675

1 Image

Description

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<b>Product name</b>	Native pig Calpain 1 protein
<b>Biological activity</b>	Greater than 1000 units per mg protein prior to freezing.  One unit is defined as the amount of enzyme that will hydrolyze 1 pmol Suc-LLVY-AMC in 1 minute at 25 °C.  Note: 1 caseinolytic unit=9 urogenic units.
<b>Purity</b>	> 95 % SDS-PAGE.  Prepared from porcine erythrocytes obtained from a USDA -certified collection center.
<b>Expression system</b>	Native
<b>Accession</b>	<a href="#">P35750</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Native
<b>Species</b>	Pig
<b>Predicted molecular weight</b>	110 kDa
<b>Additional sequence information</b>	Prepared from porcine erythrocytes.

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab198675** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE  Functional Studies
<b>Form</b>	Liquid

Preparation and Storage

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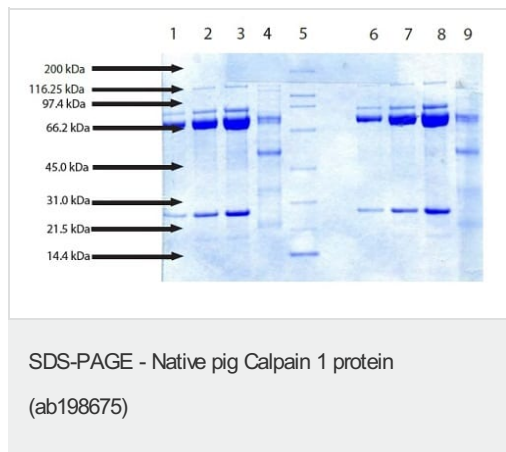
<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.  pH: 6.80 Constituents: 0.039% Beta mercaptoethanol, 0.029% EDTA, 0.038% EGTA, 30% Glycerol, 0.21% Imidazole hydrochloride
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

<b>Function</b>	Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.
<b>Tissue specificity</b>	Ubiquitous.
<b>Sequence similarities</b>	Belongs to the peptidase C2 family. Contains 1 calpain catalytic domain. Contains 4 EF-hand domains.
<b>Cellular localization</b>	Cytoplasm. Cell membrane. Translocates to the plasma membrane upon Ca(2+) binding.

## Images



### SDS-PAGE

4-12% Bis-Tris NuPAGE gel.

- Lane 1. Calpain 1 - 5 µg (reduced / heated)
- Lane 2. Calpain 1 - 10 µg (reduced / heated)
- Lane 3. Calpain 1 - 20 µg (reduced / heated)
- Lane 4. Competitor's - 10 µg (reduced / heated)
- Lane 5. BRMW Standard
- Lane 6. Calpain 1 - 5 µg (non-reduced / no heat)
- Lane 7. Calpain 1 - 10 µg (non-reduced / no heat)
- Lane 8. Calpain 1 - 10 µg (non-reduced / no heat)
- Lane 9. Competitor's - 10 µg (non-reduced / no heat)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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