

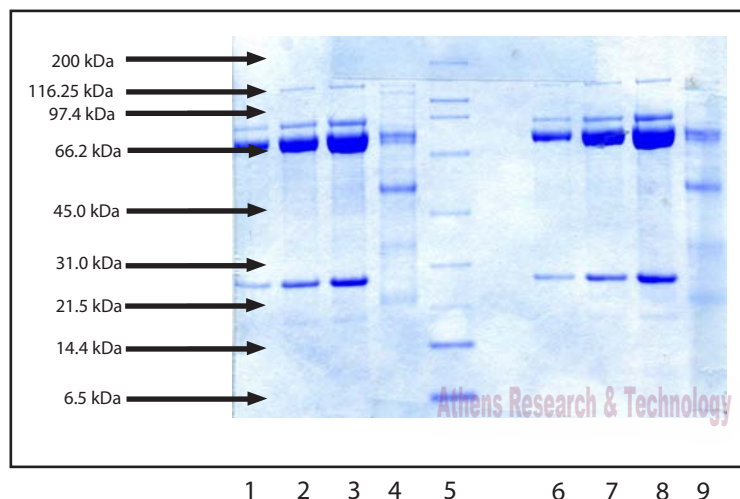
Athens Research & Technology

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Representative Product Analysis

Calpain-1, Porcine Erythrocyte

ART Catalog No. 16-05-030112-P



SDS-PAGE:

4-12% Bis-Tris NuPAGE gel

1. Calpain-1 - 5 μ g (reduced / heated)
2. Calpain-1 - 10 μ g (reduced / heated)
3. Calpain-1 - 20 μ g (reduced / heated)
4. Competitor's - 10 μ g (reduced / heated)
5. BRMW Standard (BIO-RAD Cat. No. 161-0317)
6. Calpain-1 - 5 μ g (non-reduced / no heat)
7. Calpain-1 - 10 μ g (non-reduced / no heat)
8. Calpain-1 - 10 μ g (non-reduced / no heat)
9. Competitor's - 10 μ g (non-reduced / no heat)

Molecular Weight: 110,000

Protein Determination:

Bradford Assay

Physical Specifications:

Frozen

Purity: \geq 95% by SDS-PAGE

Activity:

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 using the

Calpain Activity Assay Kit, fluorogenic (EMD Cat No QIA 120)

Note 1 caseinolytic unit=9 fluorogenic units.

Considerations:

Storage Conditions: Store -70° C

Avoid Freeze /Thaw cycles

Stability: $>$ 1 year

Buffer: 20 mM imidazole-HCl, 5mM B-mercaptoethanol,
1 mM EDTA, 1 mM EGTA, 30% glycerol, pH 6.8

Virginia B. Patel PhD

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Product Datasheet

Product:	Calpain-1, Porcine Erythrocytes
Catalog Number:	16-05-030112-P
Description:	Frozen
Buffer:	20 mM imidazole-HCl, 5mM B-mercaptoethanol, 1 mM EDTA, 1 mM EGTA, 30% glycerol, pH 6.8
Purity:	>=95% by SDS-PAGE
Activity:	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 using the Calpain Activity Assay Kit, fluorogenic (EMD Cat No QIA 120) Note 1 caseinolytic unit=9 fluorogenic units.
Molecular Weight:	110,000 by SDS PAGE
Protein Determination:	Bradford Assay
Storage:	<= -70° C - Avoid Freeze/Thaw cycles
Stability:	> 1 year
Available Packaging:	100 ug per vial Larger aliquots upon request
Source:	Porcine Erythrocytes
Testing:	Prepared from porcine erythrocytes obtained from a USDA -certified collection center.

**Athens Research & Technology products are laboratory reagents and are not to be administered to humans or used for any drug purpose.
For research use or for use in further manufacturing.**