

# Calpain Assay Kit and Reagents

Calpains are calcium-dependent enzymes that determine the fate of proteins through regulated proteolytic activity. In humans, at least 14 mammalian calpains have been identified. Some calpain proteases are confined to specific tissues, whereas others are ubiquitous. Tissue-specific calpains have been implicated in diabetes, cataracts, multiple sclerosis, cancer, Duchenne's muscular dystrophy, and Alzheimer's disease (AD) and are known to cause autosomal recessive limb-girdle muscular dystrophy type 2A (LGMD2A). Recently, it has been found that calpain mediates the effects of brain-derived neurotrophic factor (BDNF) and thus may play a major role in learning and memory. In addition, calpains play active roles in cell motility, cell cycle progression, regulation of clotting and diameter of blood vessels, apoptosis, and are an essential component of necrosis. BioVision is proud to offer several key products (see below) for researchers pursuing research in the area of Calpains.

## Assay Kits

Product Name	Cat. No.	Size
Calpain Activity Assay Kit	K240	100 assays

## Enzyme/Substrate

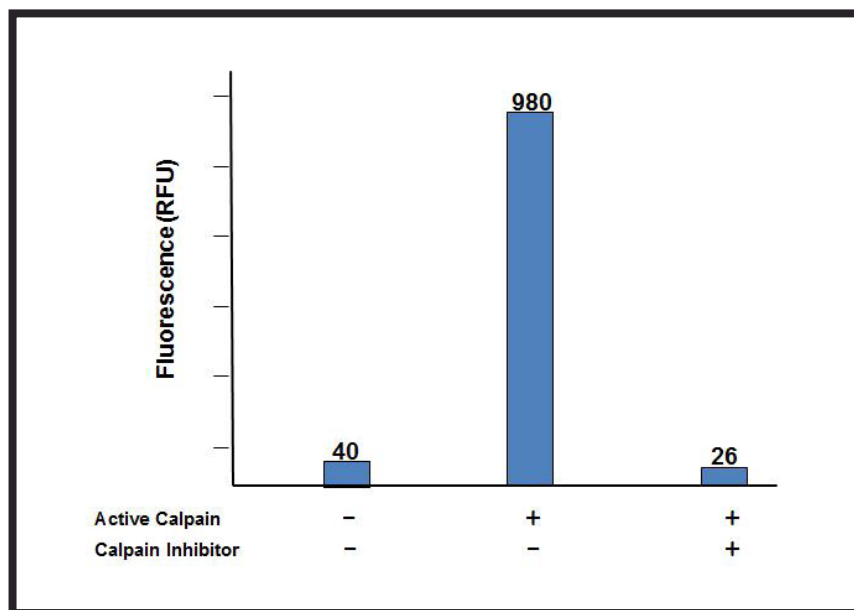
Product Name	Cat. No.	Size
Active Human Calpain 1	1134	100 µg
Suc-Leu-Leu-Val-Tyr-AMC	1833	5 mg, 25 mg

## Antibodies

Product Name	Cat. No.	Size
Calpain 1 Antibody	3189	30 µg, 100 µg
Calpain 1 Blocking Peptide	3189BP	50 µg
Calpain 1 Blocking Peptide	3372BP	50 µg
Calpain 2 Antibody	3372	30 µl, 100 µl

## Inhibitors

Product Name	Cat. No.	Size	CAS No.
Calpain Inhibitor I, ALLN	1834	5 mg, 25 mg	110044-82-1
Calpain Inhibitor II, ALLM	1835	5 mg, 25 mg	136632-32-1
Calpain Inhibitor Z-LLY-FMK	1125	20 µl	133410-84-1
PD 150, 606	1906	5 mg, 25 mg	179528-45-1



Please visit [www.BioVision.com](http://www.BioVision.com) for a comprehensive overview on our products!

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