

Calpain Assay Kit & 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.

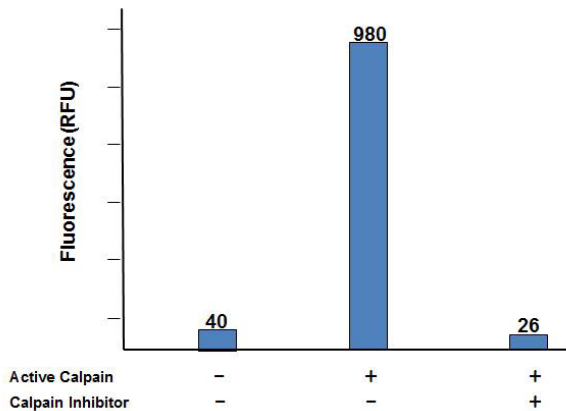


Figure (K240-100): Active Calpain (1 µg) was incubated at 37 °C for one hour using the Calpain Substrate (Ac-LLY-AFC) with or without 20 µM Calpain Inhibitor (Z-LLY-FMK)

Assay Kits

Product Name	Cat. No.	Size
Calpain Activity Assay Kit	K240	100 assays
Human Calpain 1 Inhibitor Screening Kit (Fluorometric)	K244	100 assays

Antibodies

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

Enzyme/Substrate

Product Name	Cat. No.	Size
Active Human Calpain 1	1134	100 µg
Active Porcine Calpain 1	1138	100 µg

Inhibitors

Product Name	Cat. No.	Size	CAS. No.
Aurintricarboxylic acid	1506	1 g	4431-00-9
Calpain Inhibitor I, ALLN	1834	5 mg, 25 mg	110044-82-1
EZSolution™ Calpain Inhibitor I, ALLN	2544	5 mg	110044-82-1
Calpain Inhibitor II, ALLM	1835	5 mg, 25 mg	136632-32-1
Calpain Inhibitor Z-LLY-FMK	1125	20 µl (10 mM)	133410-84-1
Calpain Inhibitor, Z-LLY-FMK	B1506	250 µg, 1 mg	133410-84-1

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Toll Free: 800-891-9699 (US Only)



Product Name	Cat. No.	Size	CAS. No.
DiscoveryPak™ Calpain Inhibitors Set	S228	1 set	Multiple
MDL 28170	2195	10 mg, 50 mg	88191-84-8
PD 150, 606	1906	5 mg, 25 mg	179528-45-1
Penicillide	B1245	250 µg, 1 mg	55303-92-9
Suc-Leu-Leu-Val-Tyr-AMC	1833	5 mg, 25 mg	94367-21-2

Please visit www.BioVision.com for a comprehensive overview on our products!