BioVision

Active Human Calpain 1 (µ-Calpain)

CATALOG #: 1134-100 ,1000

AMOUNT: 100 μg, 1 mg

DESCRIPTION:

 Ca^{2+} -dependent cysteine proteinase with low Ca^{2+} requirement (half maximal activation = 2 μ M). Participates in the ATP release reaction of platelets stimulated with thrombin. Involves in apoptosis activation.

SOURCE:

Prepared from packed red blood cells shown to be negative for HBsAg and for antibodies to HIV 1 & 2, HBc and HCV by FDA required tests.

FORM:

In 20 mM imidazole-HCl, 5 mM β -mercaptoethanol, 1 mM EDTA, 1 mM EGTA, 30% glycerol, pH 6.8.

MOL. WEIGHT: 110,000

PURITY: <u>>95% by SDS-PAGE</u>

SPECIFIC ACTIVITY: ≥1000 U/mg protein

UNIT DEFINITION:

One unit is defined as the amount of enzyme that will hydrolyze one pmol Suc-LLVY-AMC per minute at 25 °C.

STORAGE CONDITIONS:

Store at -70° C, stable for at least 1 year as supplied. Avoid freeze/thaw cycles.

REFERENCES:

- 1. Sorimachi, H., et al. (1997) Biochem. J. 328:721-726.
- 2. Croall, D.E. and MaGrody, K.S. (1994) Biochemistry 33:13223-13229.

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

- Calpain Activity Assay Kit (Cat. No. K240-100)
- Calpain 1 Antibody (Cat. No. 3189-100)
- Calpain 1 Blocking Peptide (Cat. No. 3189BP-50)
- Calpain 2 Antibody (Cat. No. 3372-100)
- Calpain 2 Blocking Peptide (Cat. No. 3372BP-50)
- Calpain Inhibitor Z-LLY-FMK (Cat. No. 1125-20C)
- Suc-Leu-Leu-Val-Tyr-AMC (Cat. No. 1833-5)

