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# Product Description

## m-Calpain (10 µg)

**Product:** m-Calpain isolated from bovine myocardium (10 µg).

**Lot No.:** BHT-42

**Form:** liquid in 50 mM Imidazole-HCl, 0.2 mM EDTA, 1mM DTT and 50% glycerol, pH 7.4.

**Storage:** Store at -20°C. Avoid repeated freezing and thawing.

### Description

This protein consists of an 80 kDa large subunit and a 30 kDa small subunit. The protein was purified by sequential chromatography through DEAE-Sepharose, A 1.5m Bio-Gel, and Phenyl-Sepharose CL-4B columns. This protein can be used for adsorption tests and immunoblots.

For fluid-phase adsorption in immunohistochemistry we suggest the following procedure:

- Dilute 1 µl of the antiserum against m-calpain (Swant) in 1 ml of the usual buffer for immunohistochemistry (final dilution 1:1'000).
- Add 1 µg of the protein to 1 ml of the diluted antibody solution and mix well.
- Incubate for at least 6 hours in the cold.
- Apply to tissue-sections and incubate for 3 days.
- Complete the immunohistochemical reaction as usual (biotinylated second antibody, ABC-complex, DAB).

As a result, the immunostaining should be strongly reduced or even completely prevented.

### References

Lane et al. (1992) A comparison of the intracellular distribution of µ-calpain, m-calpain and calpastatin in proliferating human A431 cells. *Exp. Cell Res.* **203**:5-16.