

Bioactive

## Papain (Papaya)

Catalog # P5201

Size 1 Tub

### Specification

Product Description	Lyophilized. 0.22 um filtered. Nuclease free. Contains papain, L-cysteine, and EDTA.
Biological function	Papain is a cysteine hydrolase that is stable and active under a wide range of conditions.
Host	Plants
Theoretical MW (kDa)	23.4
Form	Lyophilized
Preparation Method	Native protein purified from Papaya Latex
Activity	$\geq 100$ units per vial. One Unit hydrolyzes one micromole of benzoyl-L-arginine ethyl ester per minute at 25°C, pH 6.2, after activation in a solution containing 1.1 mM EDTA, 0.067 mM mercaptoethanol and 5.5 mM cysteine-HCl for 30 minutes.
Recommend Usage	Papain Assay; Cell isolation (more gentle than other proteases); Protein structural studies; Peptide mapping; Red cell surface modification for antibody screening or identification; Fab preparation from IgG and IgM antibodies; Solubilization of integral membrane proteins; Production of glycopeptides from purified proteoglycans; enzymatic wound debridement.
Storage Instruction	Store at 4°C. Reconstituted with 5 ml of Earle's Balanced Salt Solution (EBSS) or equivalent yields a solution at 20 units of papain per ml in 1 mM L-cysteine with 0.5 mM EDTA. Do not freeze the reconstituted solution.

### Applications

- Enzyme Activity