

Bioactive

Papain (Papaya), 2x

Catalog # P5245

Size 25 mg

Specification

Product Description	Lyophilized. 2x crystalline. It is recommended that the enzyme be 0.22um filtered after reconstitution and prior to use.
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	Activates to at least 15 units per mg protein. 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.
Note	It should be incubated in the activation solution (1.1 mM EDTA, 0.067 mM mercaptoethanol and 5.5 mM cysteine-HCl) for 30 minutes before use to ensure full activity.

Applications

- Enzyme Activity