

Bioactive

## Papain (Papaya), 2x

Catalog # P5246

Size 25 mg

### Specification

<b>Product Description</b>	Solution. 2x crystalline. It is recommended that the enzyme be 0.22um filtered after reconstitution and prior to use.
<b>Biological function</b>	Papain is a cysteine hydrolase that is stable and active under a wide range of conditions.
<b>Host</b>	Plants
<b>Theoretical MW (kDa)</b>	23.4
<b>Form</b>	Liquid
<b>Preparation Method</b>	Native protein purified from Papaya Latex
<b>Activity</b>	Activates to at least 20 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.
<b>Recommend Usage</b>	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.
<b>Storage Buffer</b>	In 50 mM sodium acetate, pH 4.5
<b>Storage Instruction</b>	Store at 4°C. This product is stable for at least 3 months.
<b>Note</b>	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