

Native Carica papaya latex Papain

Cat. No. Papain-12 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Carica papaya latex Papain
Species	Carica papaya
Stability	Stable for ~ 6months at 2-8 centigrade. Do not freeze aqueous suspensions.
Applications	Cell isolation where it is more gentle than other proteases (i.e.: cortical neurons, retina, and smooth muscle) 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
Notes	Papain preparations should be incubated in the activation solution before use to ensure full activity. Applications include antibody fragmentation and primary/neural cell isolation.
Reference	1. Akahane, K. and Umeyama, H. Binding Specificity of Papain and Cathepsin B , Enzyme 36 , 141 , 1986 2. Alecio, M. , Dann, M. and Lowe, G. The Specificity of the S1 Subsite of Papain , Biochem J 141 , 495 , 1974 3. Allen, G. and Lowe, G. Investigation of the Active Site of Papain with Fluorescent Probes , Biochem J 133 , 679 , 1973

GENE INFORMATION

Synonyms	Papain; Car p 1; EC:3.4.22.2; Papaya proteinase I; PPI
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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