Creative Enzymes®

Native Fig tree latex Ficin

Cat. No. NATE-0255

Lot. No. (See product label)

Introduction

Description	Ficin is classified as a thiol protease. It contains a single reactive cysteine at its active site. The amino acid homology of the active site is similar to that of papain. Ficin will cleave proteins at the carboxyl side of Gly, Ser, Thr, Met, Lys, Arg, Tyr, Ala, Asn, and Val. The reported Km for the chromogenic substrate pGlu-Phe-Leu-p-nitroanilide is 0.43 mM. Ficin is inhibited by iodoacetamide, iodoacetic acid, N-ethylmaleimide, mercuric chloride, DFP (diisopropyl fluorophosphate), TLCK (Na-p-Tosyl-lysine chloromethyl ketone), and TPCK (N-Tosyl-L-phenylalanine chloromethyl ketone). Ficin can be used to generate high yielding F (ab')2 fragments from mouse IgG1.
Synonyms	ficin; debricin; higueroxyl delabarre; EC 3.4.22.3; 9001-33-6; ficain

Product Information

Source	Fig tree latex
Form	saline suspension or lyophilized powder
EC Number	EC 3.4.22.3
CAS No.	9001-33-6
Molecular Weight	23.8 kDa
Activity	> 1.0 units/mg protein
Specificity	Extinction Coefficient: E1% = 21.0 (280 nm) pI: 9.0
Unit Definition	One unit will produce a ΔA280 of 1.0 per min at pH 7.0 at 37°C when measuring TCA soluble products from casein in a final volume of 10 mL (1 cm light path).