

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 K_m 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 ΔA_{280} 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).