

Native α -lytic protease

Cat. No. NATE-0052

Lot. No. (See product label)

Introduction

Description

Alpha-lytic protease (aLP) is an alternative specificity protease for proteomics applications. This protease cleaves after T, A, S, and V residues. It generates peptides of similar average length as trypsin. aLP was first isolated from the myxobacterium *Lysobacter enzymogenes*. The pro-form of aLP is 397 amino acids long. In its mature form, aLP is 198 amino acids long. Its tertiary structural core resembles those of pancreatic serine proteases.

Synonyms

Alpha-lytic protease; myxobacter α -lytic proteinase; α -lytic proteinase; α -lytic protease; Mycobacterium *sorangium* α -lytic proteinase; Myxobacter 495 α -lytic proteinase; Alp

Product Information

Form

Supplied as a solution in 10 mM sodium acetate buffer, pH 5.0.

Isoelectric point

9.69

Optimum pH

5.0 (storage); 7.5 (activity)

Unit Definition

One unit will produce one mmole of p-nitroaniline per minute from N-succinyl-Ala-Ala-Ala-PNA at 25°C at pH 7.5

Storage and Shipping Information

Storage

–70°C