

Native *Streptomyces griseus* Aminopeptidase I

Cat. No. NATE-0070

Lot. No. (See product label)

Introduction

Description Aminopeptidase I from *S. griseus* has a fairly broad specificity, being able to remove the N-terminal residue of most proteins, except where the penultimate residue is an imino acid. It contains two Zn²⁺ binding sites. Aminopeptidase I from *S. griseus* is inhibited by 1,10-phenanthroline and is activated six-fold by Ca²⁺, which also stabilizes it against heat inactivation. This monomeric zinc metalloprotein has an isoelectric point (pI) of 5.4.

Applications Aminopeptidase I from *Streptomyces griseus* may be used as a reagent for the analysis of protein structure and as a model for studies of proteolytic enzyme activation by calcium ions. It may be used as a reagent in the assay of endoprotease activities with a synthetic substrate in a two-stage assay. The lyophilized powder also contains calcium acetate.

Synonyms aminopeptidase III; aminopeptidase yscl; leucine aminopeptidase IV; yeast aminopeptidase I; EC 3.4.11.22; 9031-94-1; Aminopeptidase I

Product Information

Source *Streptomyces griseus*

Form lyophilized powder. Contains calcium acetate

EC Number EC 3.4.11.22

CAS No. 9031-94-1

Activity > 200 units/mg protein

Isoelectric point 5.4

Unit Definition One unit will hydrolyze 1.0 μmole of L-leucine-p-nitroanilide to L-leucine and p-nitroaniline per min at pH 8.0, 25°C and 3.0 mM substrate concentration.

Storage and Shipping Information

Storage -20°C