

## **Metalloproteinase from Staphylococcus aureus**

Cat. No. NATE-1617

Lot. No. (See product label)

## Introduction

Description

A metalloproteinase, or metalloprotease, is any protease enzyme whose catalytic mechanism involves a metal. An example of this would be meltrin which plays a significant role in the fusion of muscle cells during embryo development, in a process known as myogenesis. Most metalloproteases require zinc, but some use cobalt. The metal ion is coordinated to the protein via three ligands. The ligands co-ordinating the metal ion can vary with histidine, glutamate, aspartate, lysine, and arginine. The fourth coordination position is taken up by a labile water molecule. Treatment with chelating agents such as EDTA leads to complete inactivation. EDTA is a metal chelator that removes zinc, which is essential for activity. They are also inhibited by the chelator orthophenanthroline.

**Applications** 

Enzyme used for structural and enzymological studies. Specificity similar to that of thermolysin with

preference to hydrophobic P1' residues.

Synonyms

Aureolysin

## **Product Information**

**Source** Staphylococcus aureus

Form Lyophilized from 20 mM Tris/HCl pH 7.8, containing 5-10 mM CaCl2.

**EC Number** EC 3.4.24.29

**CAS No.** 39335-13-2

Molecular

28000

Weight

**Purity** > 95 % (SDS-PAGE)

## Storage and Shipping Information

**Storage** at -15 °C to -25 °C

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