

## **Native Human Proteinase 3**

Cat. No. NATE-0620

Lot. No. (See product label)

## Introduction

**Description** Proteinase 3 also known as PRTN3 is an enzyme that in humans is encoded by the

PRTN3 gene. PRTN3 is a serine protease enzyme expressed mainly in neutrophil granulocytes. Its exact role in the function of the neutrophil is unknown, but, in human neutrophils, proteinase 3 contributes to the proteolytic generation of antimicrobial peptides. It is also the epitope of anti-neutrophil cytoplasmic antibodies (ANCAs) of the c-ANCA (cytoplasmic subtype) class, a type of antibody frequently found in the disease granulomatosis with polyangiitis (formerly known as

"Wegener's granulomatosis").

**Synonyms** PRTN3; proteinase 3; ACPA; AGP7; C-ANCA; CANCA; MBN; MBT; NP-4; NP4; P29; PR-

3; PR3; EC 3.4.21.76

## **Product Information**

**Species** Human

**Source** Human Neutrophils

**Form** Liquid

**EC Number** EC 3.4.21.76

*CAS No.* 128028-50-2

**Purity** > 96% (SDS-PAGE)

**Activity** Typically > 0.1 U/mg protein

**Pathway** C-MYB transcription factor network, organism-specific biosystem

Function enzyme binding; peptidase activity; protein binding; serine-type endopeptidase

activity; serine-type peptidase activity

Unit Definition One unit will hydrolize one micromole of Methoxy succinyl-alanine-alanine-proline-

valine-p-nitroanilide per minute at 37°C and pH 7.5.

## Storage and Shipping Information

**Storage** -20°C

1/1