

## 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 (ANCA) 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

<b>Species</b>	Human
<b>Source</b>	Human Neutrophils
<b>Form</b>	Liquid
<b>EC Number</b>	EC 3.4.21.76
<b>CAS No.</b>	128028-50-2
<b>Purity</b>	> 96% (SDS-PAGE)
<b>Activity</b>	Typically > 0.1 U/mg protein
<b>Pathway</b>	C-MYB transcription factor network, organism-specific biosystem
<b>Function</b>	enzyme binding; peptidase activity; protein binding; serine-type endopeptidase activity; serine-type peptidase activity
<b>Unit Definition</b>	One unit will hydrolyze 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