Creative Enzymes®

# Native Human Proteinase 3

*Cat. No. NATE-0620*

*Lot. No.* (See product label)

## Introduction

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| ***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

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| ***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

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| ***Storage*** | -20°C |