

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

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 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