

Native Human Elastase

Cat. No. NATE-1048

Lot. No. (See product label)

Introduction

Description

Neutrophils, also known as neutrophilic polymorphonuclear leukocytes, are the major class of white blood cell in human peripheral blood. They, have a multilobed nucleus and neutrophilic granules, and are phagocytes and have an important role in engulfing and killing extracellular pathogens. The neutrophil form of elastase is 218 amino acids long, with two asparagine-linked carbohydrate chains. Current studies show that both Cathepsin G and Neutrophil Elastase are key enzymes for tissue injury caused by activated neutrophils, such as occurs in Acute Lung injury.

Applications

Clinical research, life science and diagnostic manufacturing uses

Synonyms

ELANE; elastase; EC 3.4.21.37; leukocyte elastase; ELA2; elastase 2; neutrophil elaszym; serine elastase; lysosomal elastase; neutrophil elastase; polymorphonuclear leukocyte elastase; elaszym; granulocyte elastase

Product Information

Species

Human

Source

Human Neutrophils

Form

Liquid; 0.05 M sodium acetate, 0.6 M sodium chloride, pH 5.5

EC Number

EC 3.4.21.37

CAS No.

9004-06-2

Purity

> 96% (SDS-PAGE)

Activity

> 25 U/mg protein; > 40 U/mL

Concentration

1.0 - 1.5 mg/ml

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

2-8°C

Stability

2 years