Native Human Elastase

Cat. No. NATE-0963

Lot. No. (See product label)

Introduction

Description	Human elastase is a 28.5 kDa serine protease that has been purified from human neutrophils. Elastase is also present in the pancreas, leucocytes and serum.
Applications	Functional Assays
Synonyms	ELA2; ELANE; elastase; elastase 2; leukocyte elastase; neutrophil elastase; polymorphonuclear leukocyte elastase; granulocyte elastase; lysosomal elastase; serine elastase; neutrophil elaszym; elaszym; medullasin; bone marrow serine protease; EC 3.4.21.37

Product Information

Species	Human
Source	Human neutrophils
Appearance	Purified protein from human neutrophils - liquid
Form	Liquid
Molecular Weight	28.5 kDa
Purity	>95% by SDS PAGE
Activity	≥20 U/mg protein
Concentration	1.0 mg/ml
Specificity	Serine protease (serine-type endopeptidase); hydrolyses elastin, MeO-Suc-Ala-Ala-Pro-Val-pNA and related synthetic substrates.
Stabilizers	None present
Buffer	50 mM sodium acetate, pH 5.5; 150 mM sodium chloride
Preservative	None present
Substrates	MeO-Suc-Ala-Ala-Pro-Val-pNA
Unit Definition	One unit hydrolyses one µmole per minute of MeO-Suc-Ala-Ala-Pro-Val-pNA at 25 °C, in 100 mM Tris-HCl, pH 7.5 with 500 mM NaCl.

Usage and Packaging

Package	0.1 mg

Storage and Shipping Information

Storage	Store at -20 °C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.
Shipping Conditions	Guarantee: 12 months from date of despatch

Shipping Conditions	Guarantee: 12 months from date of despatch