Creative Enzymes®

Native Human Elastase

Cat. No. NATE-0963

Lot. No. (See product label)

Introduction

Description	Pancreatic elastase is a form of elastase that is produced in the acinar cells of the pancreas, initially produced as an inactive zymogen and later activated in the duodenum by trypsin. Elastases form a subfamily of serine proteases, characterized by a distinctive structure consisting of two beta barrel domains converging at the active site that hydrolyze amides and esters amongst many proteins in addition to elastin, a type of connective tissue that holds organs together. Pancreatic elastase 1 is a serine endopeptidase, a specific type of protease that has the amino acid serine at its active site.
Applications	Diagnostic Controls, Calibrators & Standards; Testing/Assay Validation; Life Science; Manufacturing
Synonyms	pancreatopeptidase E; pancreatic elastase I; elastase; elaszym; serine elastase; elastase-1; pancreatopeptidase; ELA1

Product Information

Species	Human
Source	Human Pancreas
Form	Lyophilized
Molecular Weight	~25,000
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	Store at -20°C