

## Rat Elastase

Cat. No. CEFX-033

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.

### Product Information

**Species** Rat

**Source** Rat Pancreas

**Form** Powder

**EC Number** EC 3.4.21.35

**Molecular Weight** 25700

**Activity** 1.9-2.1 units/mg

**Unit Definition** One unit will hydrolyze 1  $\mu$ M of Suc-(Al)3-pNA per minute at pH 8.8 and 37°C

### Storage and Shipping Information

**Storage** Store 5°C. Stable 9-12 months.