

## 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

<b>Species</b>	Rat
<b>Source</b>	Rat Pancreas
<b>Form</b>	Powder
<b>EC Number</b>	EC 3.4.21.35
<b>Molecular Weight</b>	25700
<b>Activity</b>	1.9-2.1 units/mg
<b>Unit Definition</b>	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

<b>Storage</b>	Store 5°C. Stable 9-12 months.
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