

Chymotrypsin from Porcine Pancreas

Cat. No. CEGZ-50181

Lot. No. (See product label)

Introduction

Description

Chymotrypsin is a serine protease that preferentially hydrolyzes peptide bonds involving the carboxyl groups of L-form tyrosine, phenylalanine, and tryptophan. This high-purity preparation is isolated from porcine pancreas and further purified by affinity chromatography to remove contamination by other proteases such as trypsin. The enzyme shows optimal activity around pH 8.0, and its activity is inhibited to varying degrees by heavy metals and natural trypsin inhibitors.

Applications

Used in protein structure and sequence analysis, peptide mapping, cell dissociation, and biochemical research requiring selective proteolytic digestion.

Synonyms

α-Chymotrypsin; Chymotrypsin A; EC 3.4.21.1

Product Information

Species

Porcine

Source

Porcine pancreas

Appearance

Crystalline or amorphous powder

Form

Powder

EC Number

3.4.21.1

CAS No.

9004-07-3

Purity

≥1,000 u/mg (USP); a ≥1,500 u/mg grade is also available

Activity

≥1,000 u/mg or ≥1,500 u/mg (USP)

Optimum pH

8.0

Inhibitors

Inhibited by heavy metals and natural trypsin inhibitors

Notes

For research and development use only.

Storage and Shipping Information

Storage

Store in a tightly closed container at 2-8 °C, protected from light.