

Recombinant Pig Carboxypeptidase B

Cat. No. CPB-5P **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Pig
Description	Carboxypeptidase B, also well known as pancreatic procarboxy-peptidase B (PCPB), is a highly pancreas-specific protein (PASP), and has been identified previously as a serum marker for acute pancreatitis and pancreatic graft rejection. As the prototype for those human exopeptidases that cleave off basic C-terminal residues, CPB1 specifically cleaves the C-terminal Arg and Lys residues with a preference for Arg. The B1 and B2 forms of procarboxypeptidase B differ from each other mainly in isoelectric point.
Form	Lyophilized or Liquid
Molecular Mass	The deduced amino acid sequence of PCPB predicts a 416-amino acid preproenzyme consisting of a 15-aa signal peptide, a 95-aa activation peptide and a 307-aa mature chain. The secreted PCPB zymogen is converted to enzymatically active CPB by limited proteolysis by trypsin.
Unit Definition	One Unit hydrolyzes one micromole of hippuryl-L-arginine per minute at 25°C, pH 7.65.
Enzyme Unit	≥70 units per mg protein.
Storage	Store at -20 °C, for extended storage, conserve at -20 °C or -80 °C.

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Concentration	1 -10 mg/mL
Storage Buffer	In 100 mM sodium chloride
Warning	Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week.

GENE INFORMATION

Gene Name	CPB1 carboxypeptidase B1 (tissue) [Sus scrofa(pig)]
Official Symbol	CPB1
Synonyms	CPB1; CPB
Gene ID	397341
mRNA Refseq	NM_214169
Protein Refseq	NP_999334
UniProt ID	P09955
Chromosome Location	13; 13
Pathway	Pancreatic secretion, organism-specific biosystem; Protein digestion and absorption, organism-specific biosystem
Function	metallocarboxypeptidase activity; zinc ion binding

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