Creative Enzymes®

Carboxypeptidase B from Porcine, Recombinant

Cat. No. NATE-1147

Lot. No. (See product label)

Introduction

Description	Carboxypeptidase B (or peptidyl-L-lysine (-L-arginine) hydrolase) catalyzes the hydrolysis of the basic amino acids, lysine, arginine, and ornithine from the C-terminal position of polypeptides. It has been shown to be a single polypeptide of 34 kDa Da. Trypsin is capable of converting native enzyme to the active enzyme, carboxypeptidase B II in vitro. The optimum pH is found to be 9.0. The enzyme may be used for sequence analysis by successive cleavage of C-terminal basic amino acids. It can also be used as a serum marker for the diagnosis of acute pancreatitis.
Synonyms	carboxypeptidase B; protaminase; CPB1; pancreatic carboxypeptidase B; tissue carboxypeptidase B; peptidyl-L-lysine [L-arginine]hydrolase; EC 3.4.17.2; 9025-24-5

Product Information

Source	Porcine
Appearance	White powder, lyophilized
EC Number	EC 3.4.17.2
Molecular Weight	About 35kDa (SDS-PAGE detection)
Purity	>90% (SDS-PAGE test)
Activity	>180U/mg
Buffer	20mM NaAc, pH3.5
Unit Definition	One unit will catalyze 1.0 μmole of Hip-L-Arg per min at pH 7.65 at 25°C.

Storage and Shipping Information

Storage	Redissolved in 20% glycerol, 4°C, store at -20°C for long-term preservation, Avoid multiple freeze-thaw cycles.