Creative Enzymes®

Baker's yeast (S. cerevisiae) Carboxypeptidase Y, recombinant

Cat. No. NATE-0103

Lot. No. (See product label)

Introduction

Description	Carboxypeptidase Y (CPY) catalyzes the following reaction: Peptidyl-L-amino acid + H2O ------> Peptide + L-amino acid. It is prepared according to the method of Moore & Stein (J. Biol Chem, 211, 907, 1954). It resembles Carboxypeptidase A in its substrate specificity, but it hydrolyzes C-terminal glycine and L-leuicine more rapidly and L-phenylalanine more slowly.
Synonyms	carboxypeptidase Y; serine carboxypeptidase I; cathepsin A; lysosomal protective protein; deamidase; lysosomal carboxypeptidase A; phaseolin; EC 3.4.16.5; 9046-67-7; Peptidyl-L-amino acid Hydrolase; Serine Carboxypeptidase; Carboxypeptidase C; Peptidyl-L-amino-acid (-L-proline) hydrolase; EC 3.4.12.8

Product Information

Species	S. cerevisiae
Appearance	Clear, colorless to lightly colored
Form	500 mM sodium chloride, 500 mM imidazole, 20 mM sodium phosphate monobasic, 20 mM sodium phosphate dibasic, pH 7.5
EC Number	EC 3.4.16.1
Purity	> 90 %
Activity	> 10u/mg
Concentration	about 0.1 mg/mL
Unit Definition	One unit of enzyme activity is defined as that amount of enzyme that catalyzes the hydrolysis of 1 micromole of substrate per minute.

Storage and Shipping Information

Storage	Long term below -20°C, short term 2-8°C. Avoid multiple freeze-thaws.