

Native Bovine Pancreas Carboxypeptidase A, Type II-PMSF treated

Cat. No. CPA-01B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Bovine Pancreas Carboxypeptidase A (Type II-PMSF treated) was purified from bovine pancreas.
Species	Bovine
Source	Bovine Pancreas
Description	Carboxypeptidase as isolated from bovine pancreas glands is a metalloenzyme that contains 1 g atom of zinc per mole of protein. It catalyzes the hydrolysis of the carboxyl-terminal peptide bond in peptides and proteins. It is primarily specific to aromatic and hydrophobic side chains such as phenylalanine, tryptophan or leucine. The enzyme also exhibits esterase activity. It is inhibited by beta-phenylpropionate and indole acetate.
Tag	Non
Form	Ready-to-use solution
Bio-activity	≥50 units/mg protein
Molecular Mass	~35 kDa
Impurities	≤0.05 BTEE units/mg protein chymotrypsin ≤10 BAEE units/mg protein trypsin

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Grade	Proteomics Grade
Unit Definition	One unit will hydrolyze 1.0 μ mole of hippuryl-L-phenylalanine per min at pH 7.5 at 25 centigrade.
Applications	Carboxypeptidase A from bovine pancreas has been used in a study to investigate the expression of a soluble and activatable form of bovine procarboxypeptidase A in Escherichia coli. Carboxypeptidase A from bovine pancreas has also been used in a study to investigate the isolation and partial characterization of precursor forms of ostrich carboxypeptidase. The enzyme has been used as a comparison to study the specificity of Metarhizium anisopliae carboxypeptidase A (MeCPA). MeCPA had been genetically engineered to facilitate the removal of polyhistidine tags from the C-termini of recombinant proteins. It has also been used to de-tyrosinate α-tubulin, in vitro, in order to induce high affinity to ethyl-N-phenylcarbamate (EPC) sepharose.
Storage	2-8 centigrade

GENE INFORMATION

Official Symbol	Carboxypeptidase A
Synonyms	Carboxypolypeptidase; Peptidyl-L-amino-acid hydrolase; 11075-17-5; 3.4.17.1 (BRENDA, IUBMB); MFCD00130718; 12352204; NA.54

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