Creative Enzymes®

Carboxypeptidase-B from rat, Recombinant

Cat. No. NATE-0993

Lot. No. (See product label)

Introduction

Description	Carboxypeptidase B, recombinant, is intended to use in highly regulated production processes at pharmaceutical companies. Carboxypeptidase B is a widely used metalloprotease, typically isolated from pancreas of different animals, that specifically releases arginine and lysine from the C-terminus of peptides and proteins. Roche has chemically synthesized a gene encoding for the amino acid sequence of the rat Carboxypeptidase B and has transformed the gene into the expression host Pichia pastoris, which expresses the recombinant Carboxypeptidase B as active protease with identical properties compared to the native Carboxypeptidase B. The product is manufactured according to DIN EN ISO 13485. No animal-derived products are used in the fermentation, purification and final formulation. The production process is validated resulting in a very high lot-to-lot consistency. Eliminate the risk of virus contamination and the risk of animal-related cross-contamination. Rely on high purity. Minimize the risk of host cell protein contamination in your final product. Increase the safety of your production processes with robust and reproducible performance and high lot-to-lot consistency.
Applications	Use the animal component-free and DIN EN ISO 13485-manufactured Carboxypeptidase B, recombinant, as critical raw material for the production of active pharmaceutical ingredients (API), i.e., insulin.
Synonyms	protaminase; pancreatic carboxypeptidase B; tissue carboxypeptidase B; peptidyl-L-lysine [L-arginine] hydrolase

Product Information

Species	Rat pancreas
Source	Pichia pastoris
Appearance	Clear, colorless to slightly yellowish solution
Purity	>85%
Activity	>210 U/mg
Concentration	>400 U/ml

Storage and Shipping Information

Storage	Tris/HCl, 33 mmol/l; $ZnCl_2$, 0.1 mmol/l; pH 7.5-8.5 at +25°C
Stability	At -15 to -25°C within specification range for 24 months.