Carboxypeptidase B

npCPB ; EC 3.4.17.2

Description: Recombinant exopeptidase which catalyses the hydrolysis of amino acids lysine arginine and ornithine from C-terminal end of polypeptides.

Catalysed reaction:

Peptidyl-L-Arginine + H_2O → Peptide + L-Arginine

Origin: from genetically modified *Pichia pastoris* pKEXTEX*np*CPB clone K

Application: Conbersion from proinsulin to insulin (s. image. 1, blue arrows)
Specific cleavage of peptides

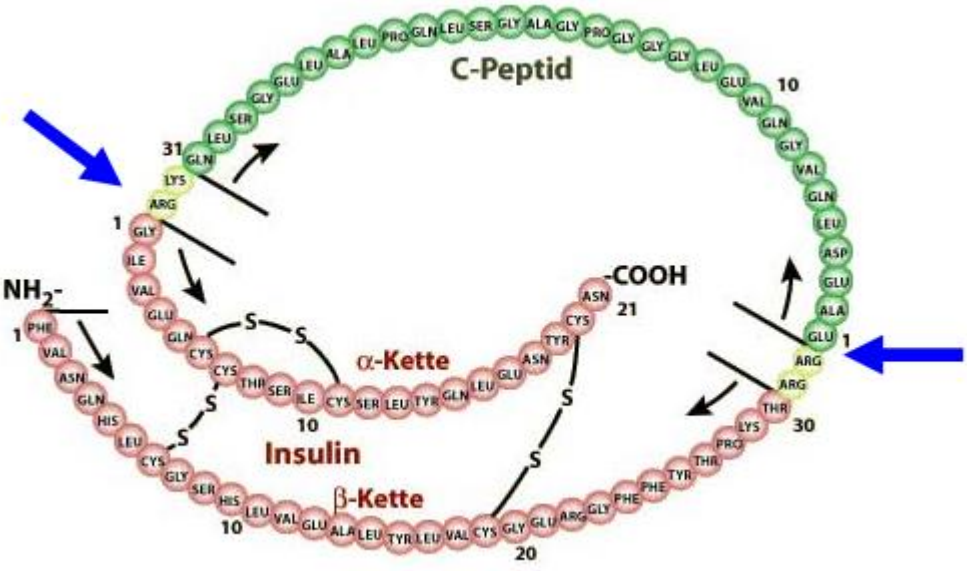

Image 1: Seperation of C-peptide from proinsulin by Carboxypeptidase B

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Activity: > 400 U/ mL

(Substrate: 1,5 mM Hippuryl-Arginine (N-Benzoyl-Gly-Arg), Method: ASA Spezialenzyme GmbH)

Specific activity: > 200 U/ mg Protein

Parameter:

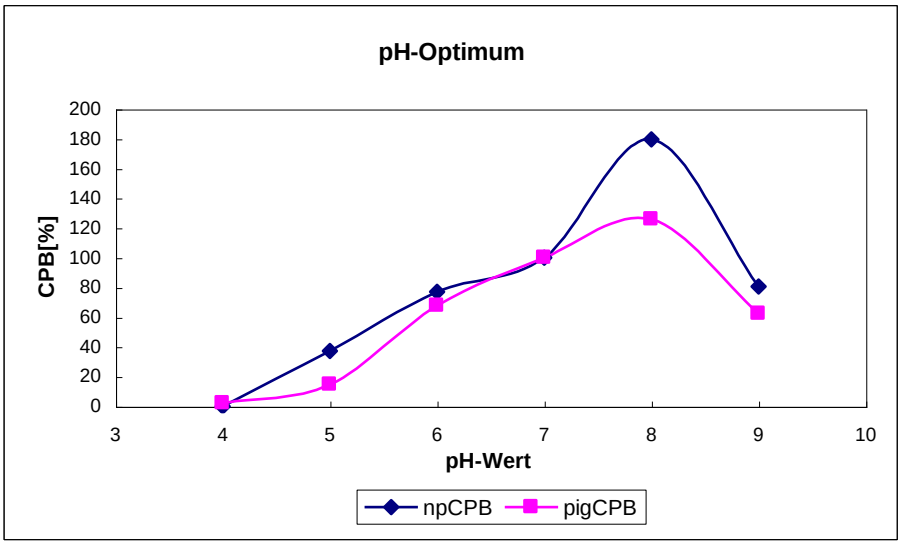

Image 2: pH-Spektrum ASA npCPB vs pigCPB

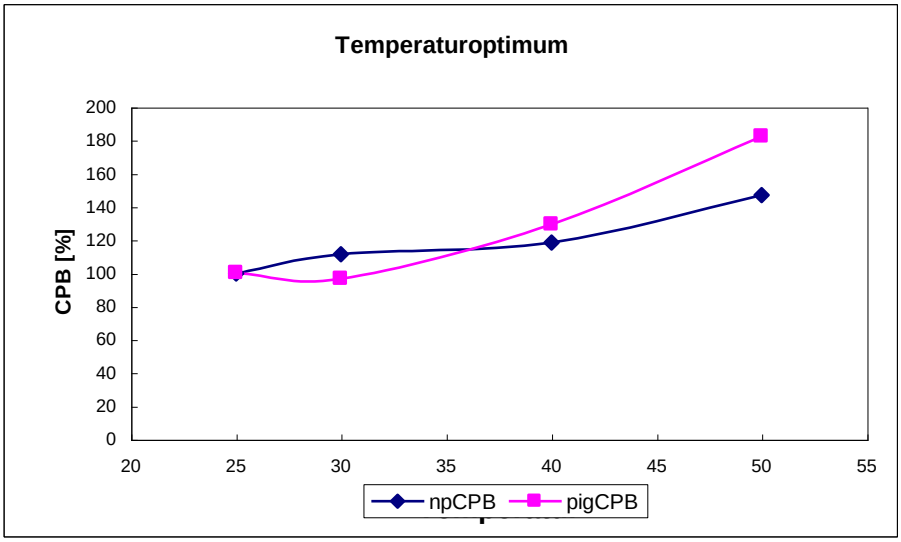

Image **3: Temperature-Spektrum ASA npCPB vs pigCPB**

Article-no.:	2500
Form of delivery:	highly purified enzyme suspension
Purity:	> 97% with Reversed-Phase-Column (Vydac C4; 250 x 4,6 mm)
	Method: HPLC-Method to determine the purity of a protein solution by Reversed-Phase-Column
Storage:	– 20°C

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