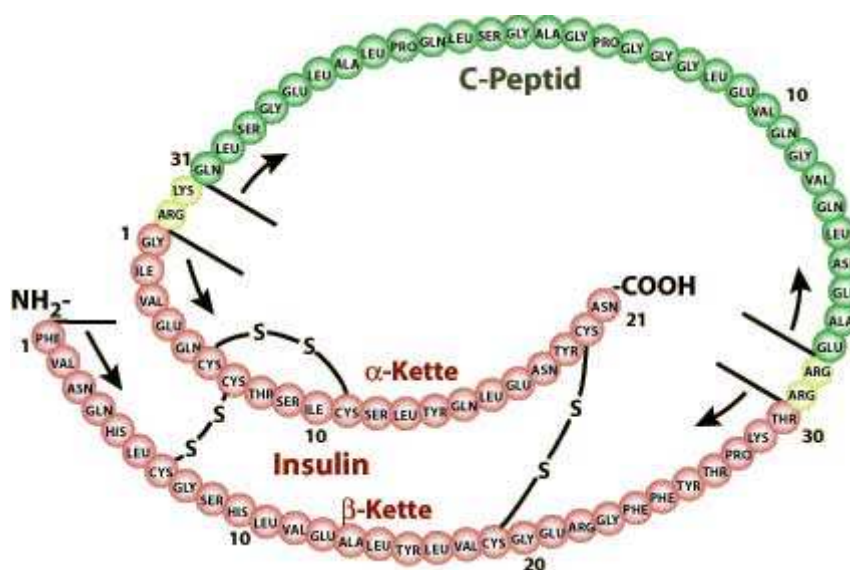


## np Carboxypeptidase B

Carboxypeptidase B (CPB)  
EC 3.4.17.2

- Description: recombinant exopeptidase which catalyzes hydrolysis of the amino acids lysine, arginine and ornithine from C-terminal end of polypeptides.
- Reaction: Peptidyl-L-Arginine+H<sub>2</sub>O  $\xrightarrow{\text{Carboxypeptidase B}}$  Peptide + L-Arginine
- Origin: *Pichia pastoris*, gene-modified
- Application: catalyses the conversion of Proinsulin to Insulin (production of Insulin)



### III.1: Splitting of C-peptide of the proinsulin with Carboxypeptidase

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Activity:	> 400 U / mL (Method: ASA Spezialenzyme GmbH)
	Trypsin/CPB < 0,005 % (Method: ASA Spezialenzyme GmbH)
Specific activity:	> 170 U / mg
Parameters of reaction:	<u>pH</u> optimum 7.8 active within pH 6 – 9
	<u>temperature</u> active within 25°C – 50°C
Order-no.:	2500
Form of delivery:	suspension
Storage:	stable at –20°C
Literature:	Kemmler W. et al., <i>Studies on the Conversion of Proinsulin to Insulin</i> , The Journal of Biological Chemistry, Vol. 246, No. 22, Issue of No- vember 25, pp. 6786-6791, 1971