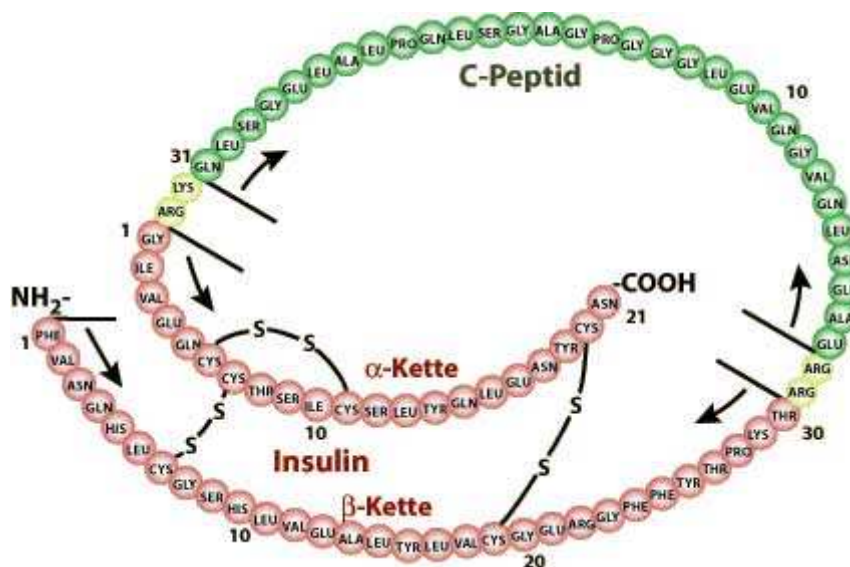


np Carboxypeptidase B

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: $\text{Peptidyl-L-Arginine} + \text{H}_2\text{O} \xrightarrow{\text{Carboxypeptidase B}} \text{Peptide} + \text{L-Arginine}$
- Origin: *Pichia pastoris*, gene-modified
- Application: catalysis the conversion of Proinsulin to Insulin (production of Insulin)



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

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