$$\begin{array}{c|cccc}
R_{n-1} & O & R_n & O \\
 & \parallel & \parallel & \parallel \\
-NH - CH - C & & NH - CH - C - \\
\hline
Scissile \\
peptide bond$$

Enzyme	Source	Specificity	Comments
Trypsin	Bovine pancreas	R_{n-1} = positively charged residues: Arg, Lys; $R_n \neq Pro$	Highly specific
Chymotrypsin	Bovine pancreas	R_{n-1} = bulky hydrophobic residues: Phe, Trp, Tyr; $R_n \neq Pro$	Cleaves more slowly for $R_{n-1} = Asn$, His, Met, Leu
Elastase	Bovine pancreas	R_{n-1} = small neutral residues: Ala, Gly Ser, Val; $R_n \neq Pro$	
Thermolysin	Bacillus thermoproteolyticus	$R_n = \text{Ile, Met, Phe, Trp, Tyr, Val;}$ $R_{n-1} \neq \text{Pro}$	Occasionally cleaves at $R_n = Ala$, Asp, His, Thr; heat stable
Pepsin	Bovine gastric mucosa	$R_n = Leu$, Phe, Trp, Tyr; $R_{n-1} \neq Pro$	Also others; quite nonspecific; pH optimum = 2
Endopeptidase V8	Staphylococcus aureus	$R_{n-1} = Glu$	