

Endoproteinases for Protein Digestion - Proteases

Proteomics applications require high-performance enzymes for efficient and reproducible digestion of proteins. Protea offers a selection of the most commonly used proteases in proteomics work. Each protease is a high-quality, purified enzyme that is batch-tested for quality assurance of specificity and performance.

FEATURES:

- Certified Mass Spec Grade enzyme for proteomics applications
- Convenient aliquots for quick digestion and sample prep
- Quality Assurance tested for specificity and performance

RESEARCH APPLICATIONS:

- Protein identification and characterization by LC-MS/MS
- De novo sequencing of unique proteins
- Peptide mass fingerprinting by MALDI-MS

ORDERING INFORMATION: PROTEASES:

Trypsin

Certified MS Grade, 1 pack of 5 vials, 10 µg/vial (50 µg total)

Catalog Number PE-101
Size 1 pack

Endoproteinase Glu-C

Certified MS Grade, 1 pack of 5 vials, 10 µg/vial (50 µg total)

Catalog Number PE-102
Size 1 pack

Pepsin

Certified MS Grade, 1 pack of 5 vials, 10 µg/vial (50 µg total)

Catalog Number PE-103
Size 1 pack

Chymotrypsin

Certified MS Grade, 1 pack of 4 vials, 5 µg/vial (20 µg total)

Catalog Number PE-104
Size 1 pack

Endoproteinase Arg-C

Certified MS Grade, 1 pack of 5 vials, 10 µg/vial (50 µg total)

Catalog Number PE-105
Size 1 pack

10x Digestion Buffer

for Trypsin and Glu-C Protease

Catalog Number FC-499-30mL
Size 30 mL



Enzyme	Source	Specificity	Digestion Conditions
TrypsinA	Bovine pancreas	Carboxy side of arginine (R) and lysine (L) bonds	50 mM ammonium bicarbonate, pH 8.0, 0 to 20% acetonitrile, 37°C
Glu-C (V8 protease)	<i>Staphylococcus aureus</i> V8	Carboxy side of glutamic acid (E) and aspartic acid (D) bonds	Ammonium bicarbonate, pH 7.8, 0, to 20% acetonitrile, 30-37°C
Chymotrypsin	Bovine pancreas	Carboxy side of tyrosine (Y), tryptophan (W), and phenylalanine (F) bonds	50 mM ammonium bicarbonate, pH 8.0, 1 mM calcium chloride, 0 to 20% acetonitrile, 30-37°C
Arg-C (Clostripain)	<i>Clostridium histolyticum</i>	Carboxy side of arginine (R) bonds	50 mM ammonium bicarbonate, pH. 7.8, 5 mM dithiothreitol (DTT), 1 mM calcium chloride, 30-37°C

Protein Digestion Kits

ORDERING INFORMATION:

Trypsin Digestion Kit

Certified MS Grade,

1 pack of 5 vials, 10 µg/vial trypsin (50 µg total), with 10X digestion buffer, reduction reagent (dithiothreitol), and alkylation reagent (iodoacetamide)

Catalog Number	Size
PE-151	1 Kit

Glu-C Digestion Kit

Certified MS Grade,

1 pack of 5 vials, 10 µg/vial Glu-C (50 µg total), with 10X digestion buffer, reduction reagent (dithiothreitol), and alkylation reagent (iodoacetamide).

Catalog Number	Size
PE-152	1 Kit

Chymotrypsin Digestion Kit

Certified MS Grade,

1 pack of 4 vials, 5 µg/vial chymotrypsin (20 µg total), with 10X digestion buffer, reduction reagent (dithiothreitol), and alkylation reagent (iodoacetamide).

Catalog Number	Size
PE-154	1 Kit

Endoproteinase Arg-C Digestion Kit

Certified MS Grade,

1 pack of 5 vials, 10 µg/vial Arg-C (50 µg total), with 10X digestion buffer, reduction reagent (dithiothreitol), and alkylation reagent (iodoacetamide)

Catalog Number	Size
PE-155	1 Kit

Pepsin Digestion Kit

Certified MS Grade,

1 pack of 5 vials of MS Grade Pepsin (each vial contains 10µg) and 1 vial of Pepsin Digestion Buffer (2mL)

Catalog Number	Size
PE-153	1 Kit