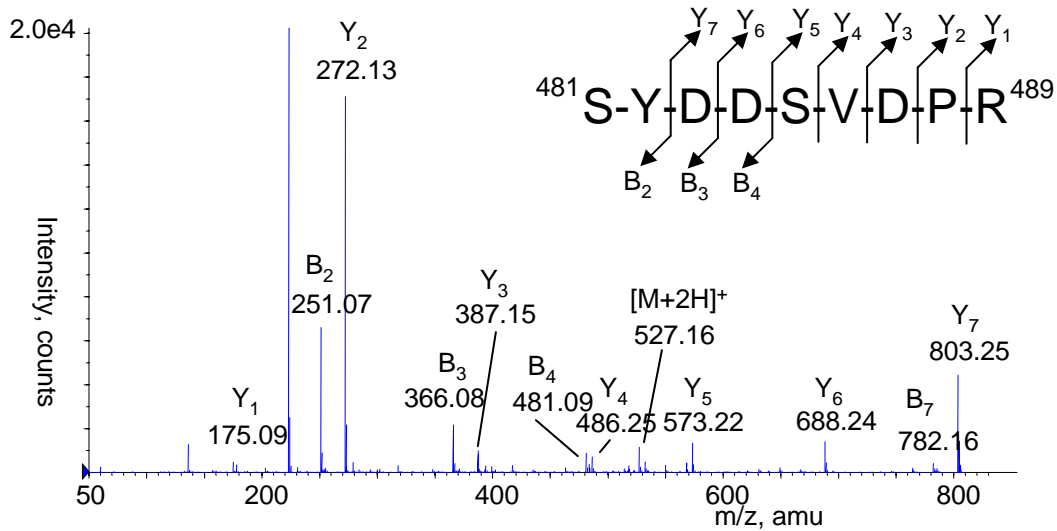
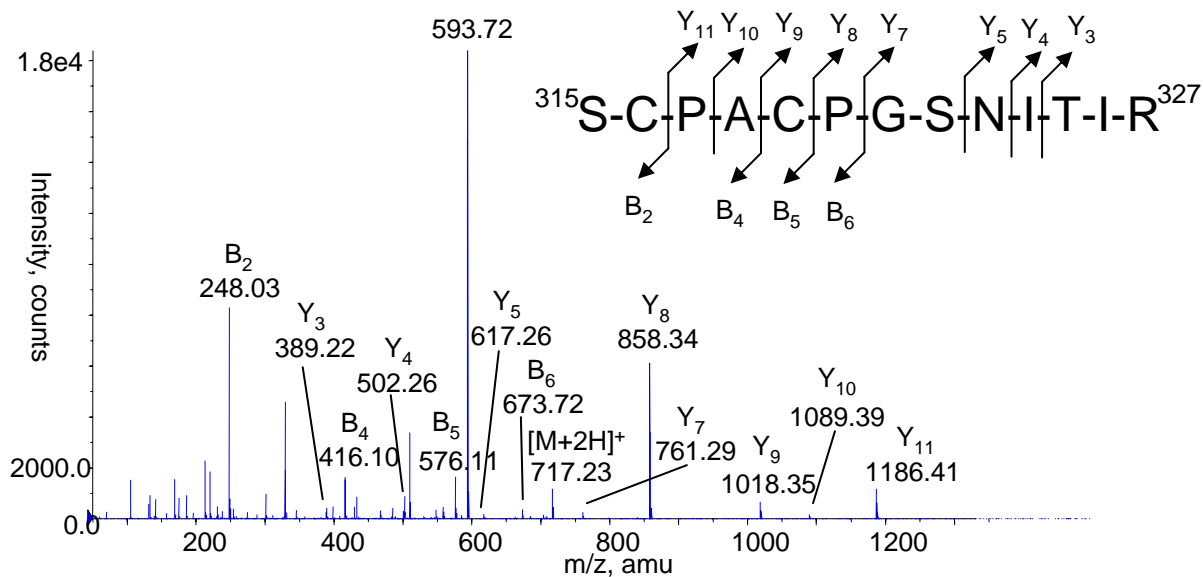


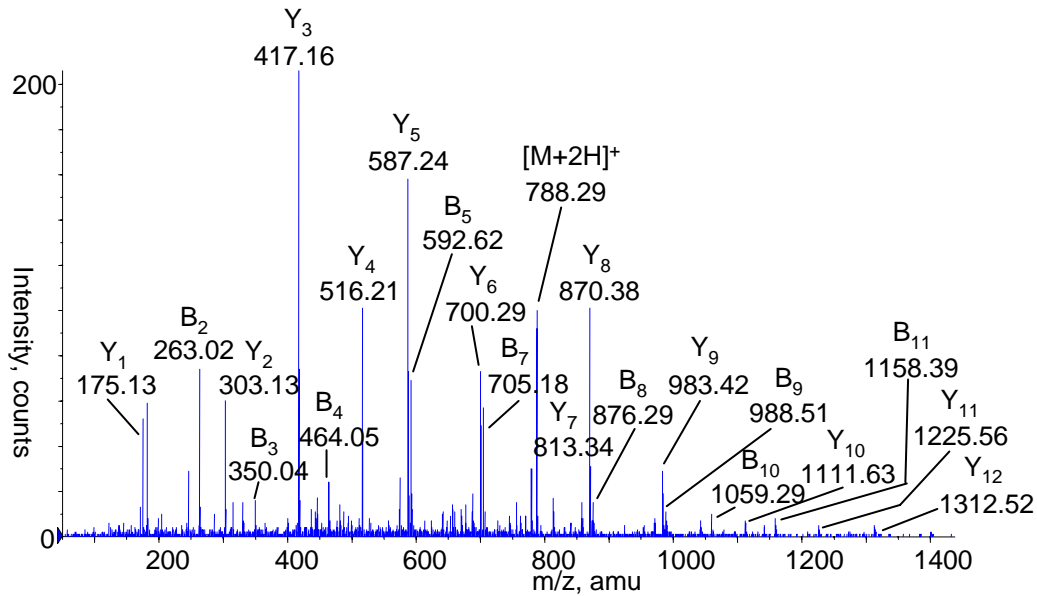
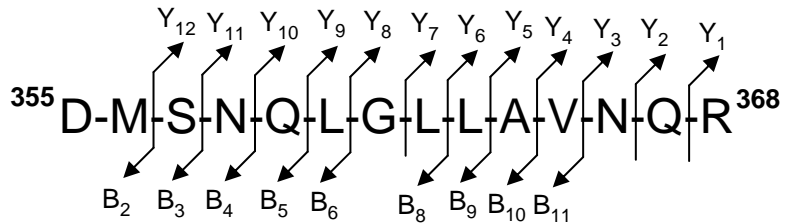
SEQUENCING SPECTRA OF RECOMBINANT MPO



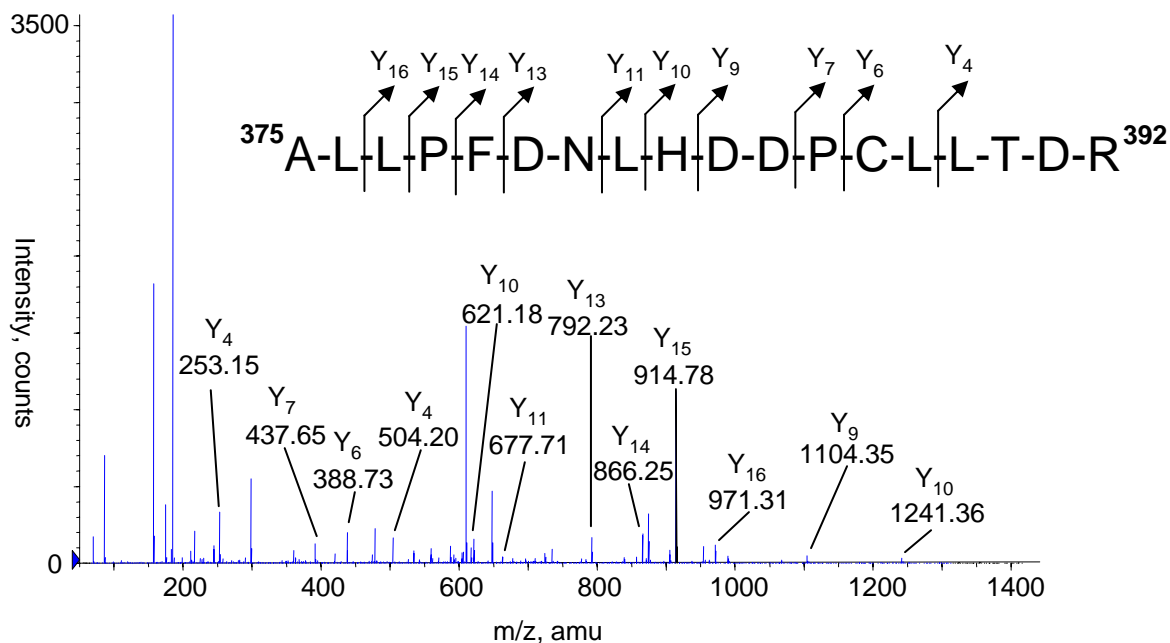
CID-MS/MS mass spectrum of the parent ion at m/z 1052.4 ([M+2H]⁺, 527.16), all fragments ions are one charged, corresponding to the fraction 28. After tryptic digestion and LC, the glycopeptide was deglycosylated using PNGase F. The peptidic aglycone was then purified on C18 Zip-tip and analyzed by nanoESI-MS/MS. The parent ion corresponds to the predicted mass of the tryptic peptide ⁴⁸¹SYDDSDPR⁴⁸⁹ containing the N⁴⁸³ glycosylation site. The N⁴⁸³ residue was transformed in aspartic residue after PNGase treatment.



CID-MS/MS mass spectrum of the parent ion at m/z 1432 ([M+2H]⁺, 717.23), all fragments ions are one charged and cysteine residues are carbamidomethylated, corresponding to the fraction 38. The parent ion corresponds to the predicted mass of the tryptic peptide ³¹⁵SCPACPGSNITIR³²⁷ containing the N³²³ glycosylation site.

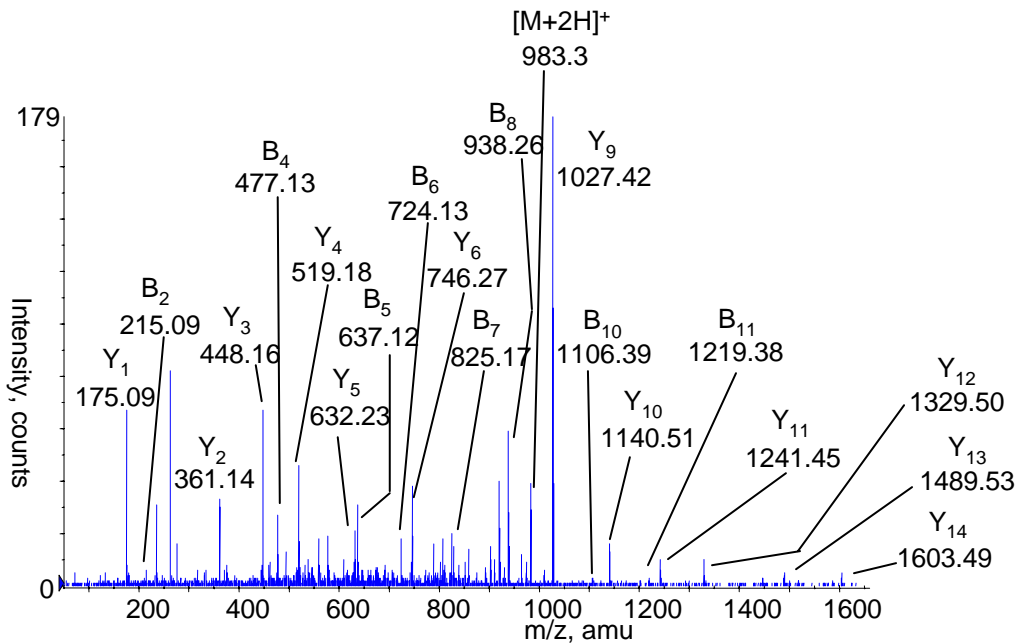
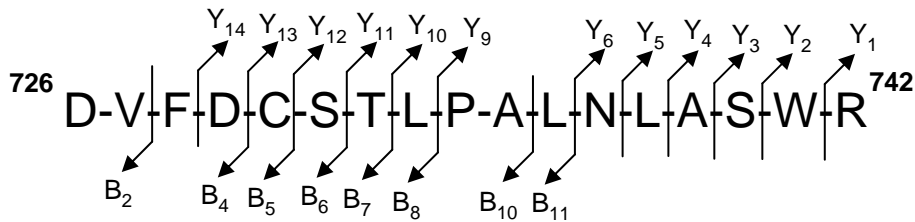


CID-MS/MS mass spectrum of the parent ion at m/z 1573.8 ($[M+2H]^+$, 788.29), all fragments ions are one charged and cysteine residues are carbamidomethylated, corresponding to the fraction 50. The parent ion corresponds to the predicted mass of the tryptic peptide ³⁵⁵DMSNQLGLLAVNQR³⁶⁸ containing the N³⁵⁵ glycosylation site.



CID-MS/MS mass spectrum of the parent ion at m/z 2124.05 ($[M+3H]^+$, 709.3), all fragments ions are double charged, except 253.15, 1104.35 and 1241.36 and cysteine residues are carbamidomethylated, corresponding to the fraction 64.

The parent ion corresponds to the predicted mass of the tryptic peptide $^{375}\text{ALLPFDNLHDDPCLLTDR}^{392}$ containing the N³⁹¹ glycosylation site.



CID-MS/MS mass spectrum of the parent ion at m/z 1963.9 ($[M+2H]^+$, 983.3), all fragments ions are one charged and cysteine residues are carbamidomethylated, corresponding to the fraction 70. The parent ion corresponds to the predicted mass of the tryptic peptide 726 DVFD**C**STLPALNLSWR 742 containing the N 729 glycosylation site.