

Supplementary Materials

Table S1. The main component content of WP

Component	Content (%)
moisture	4.02
ash	4.21
protein content (calculated on a dry basis)	83.12
degree of hydrolysis	12.38
peptide content (calculated on a dry basis)	50.31

Table S2. The relative molecular weight distribution of WP

Molecular weight range (Da)	Content (%)
>10000	2.61
5000-10000	6.60
5000-3000	3.53
3000-2000	3.72
2000-1000	9.89
1000-500	18.62
500-180	38.84
<180	16.20

Table S3. The amino acid composition of WP

Types of amino acids	Absolute content (mg/g)
aspartic acid	9.452
glutamic acid	365.708
serine	30.588
glycine	29.019
histidine	5.738
arginine	22.109
threonine	15.313
alanine	17.149
proline	136.572
tyrosine	20.334
valine	32.520
methionine	10.741
isoleucine	28.826
leucine	54.186
phenylalanine	40.379
lysine	15.131
total	833.767

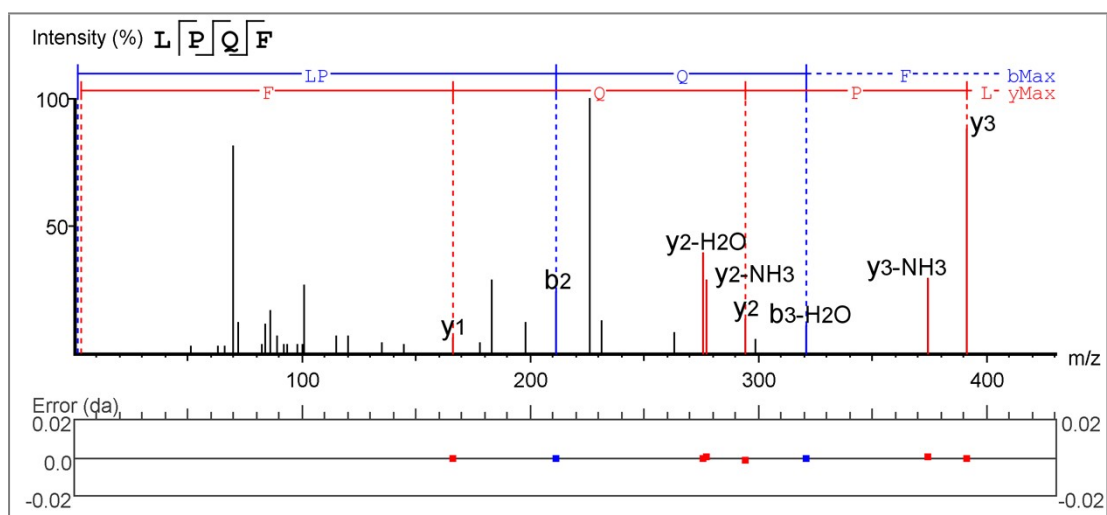


Fig. S1 The secondary mass spectrum of LPQF

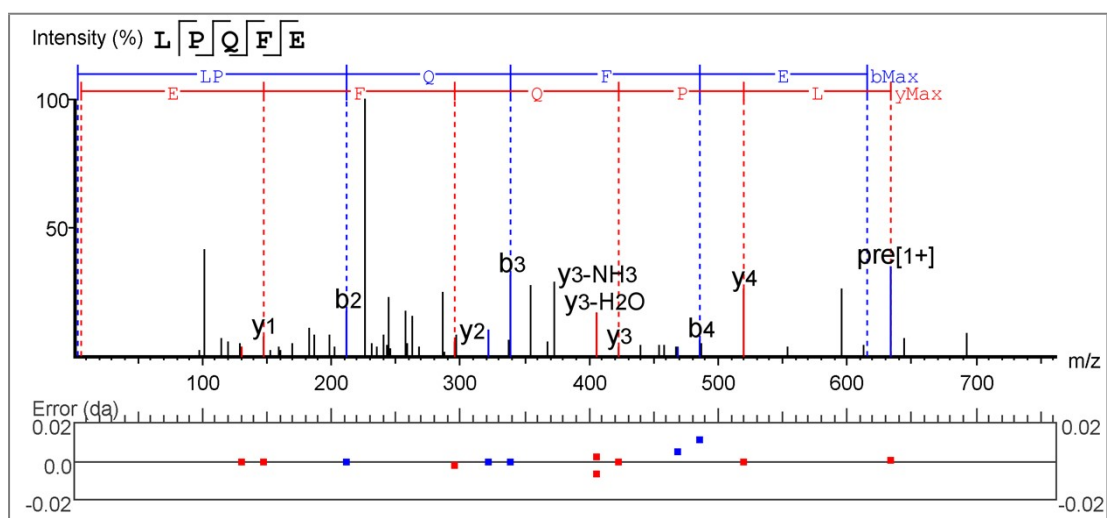


Fig. S2 The secondary mass spectrum of LPQFE

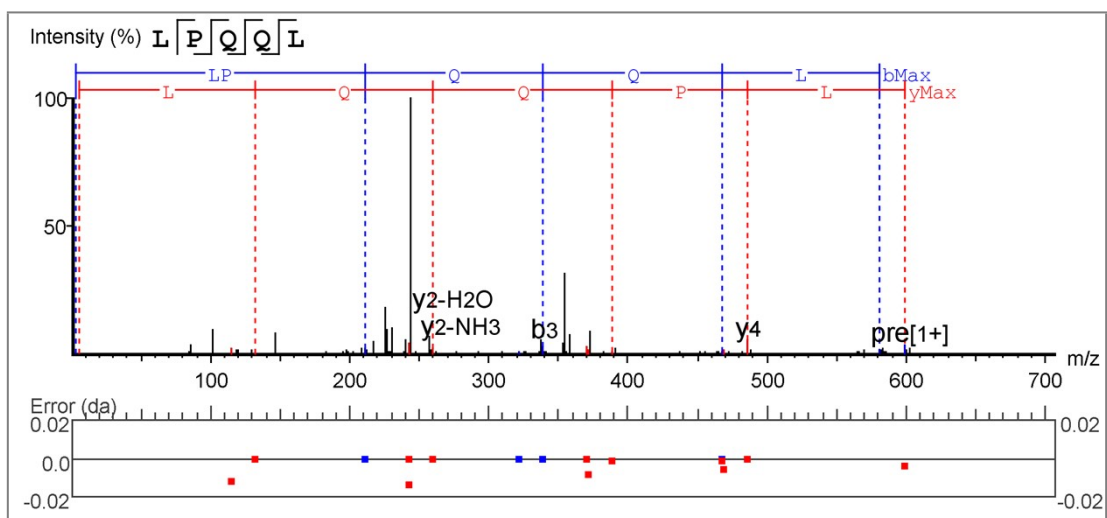


Fig. S3 The secondary mass spectrum of LPQQL

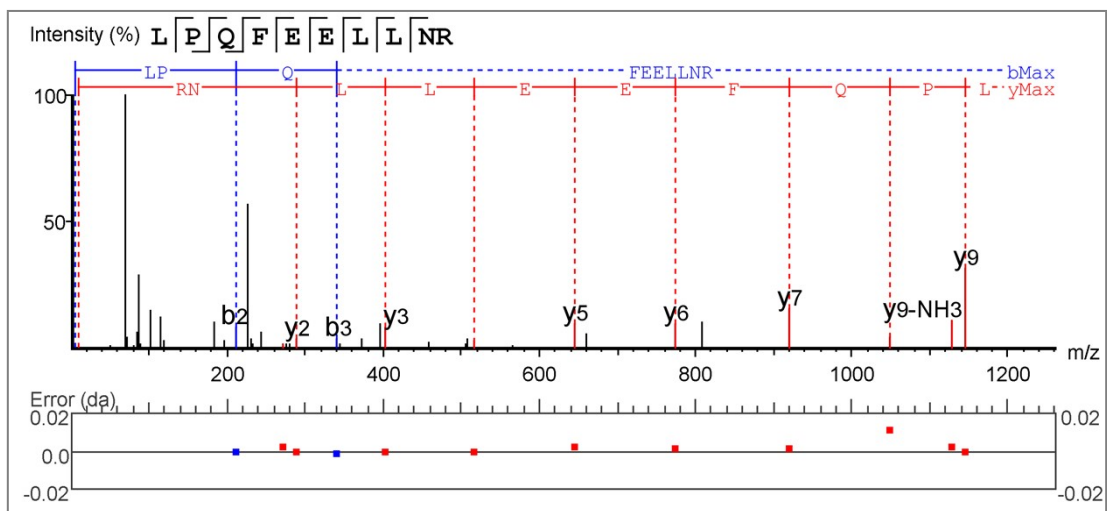


Fig. S4 The secondary mass spectrum of LPQFEELNR

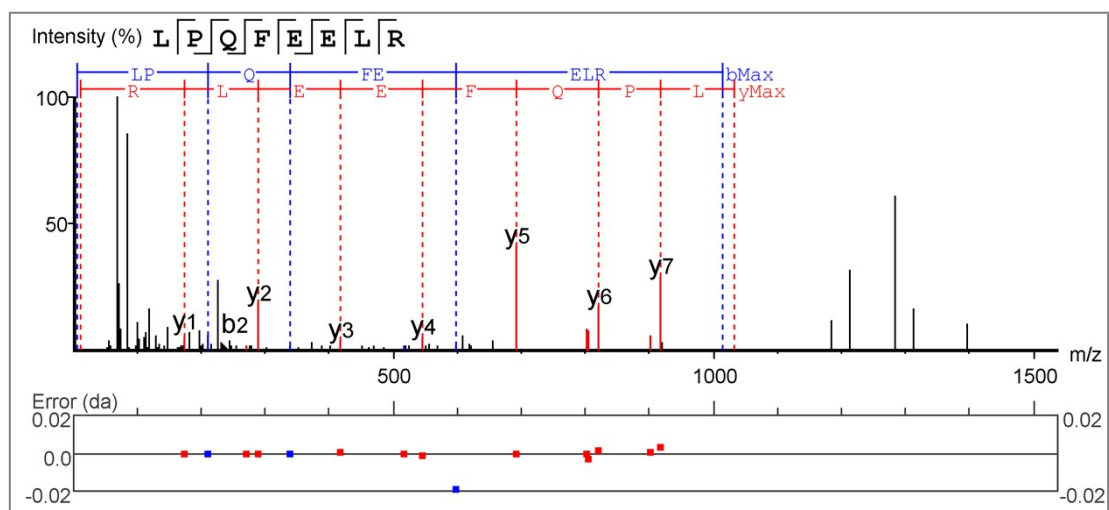


Fig. S5 The secondary mass spectrum of LPQFEELR

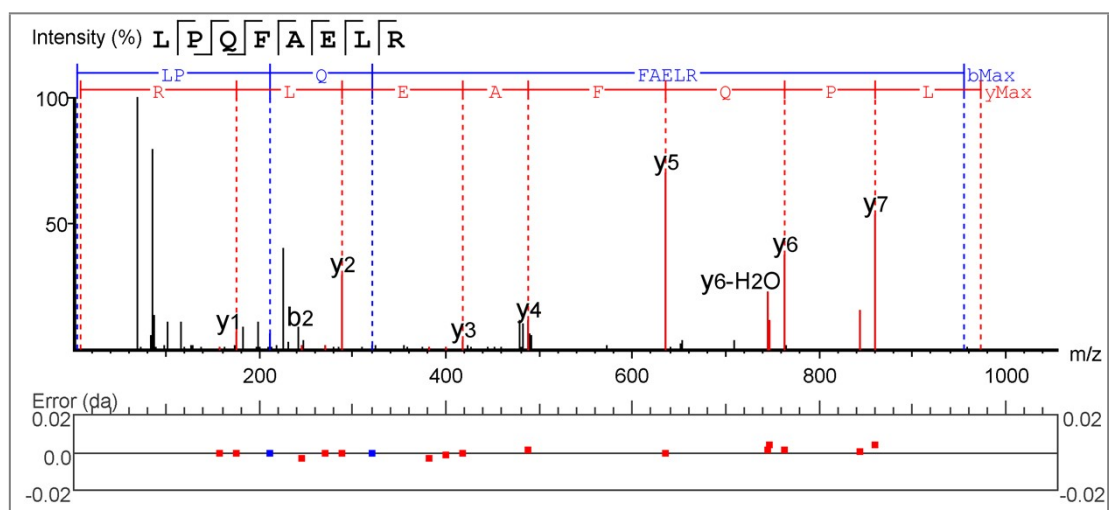


Fig. S6 The secondary mass spectrum of LPQFAELR

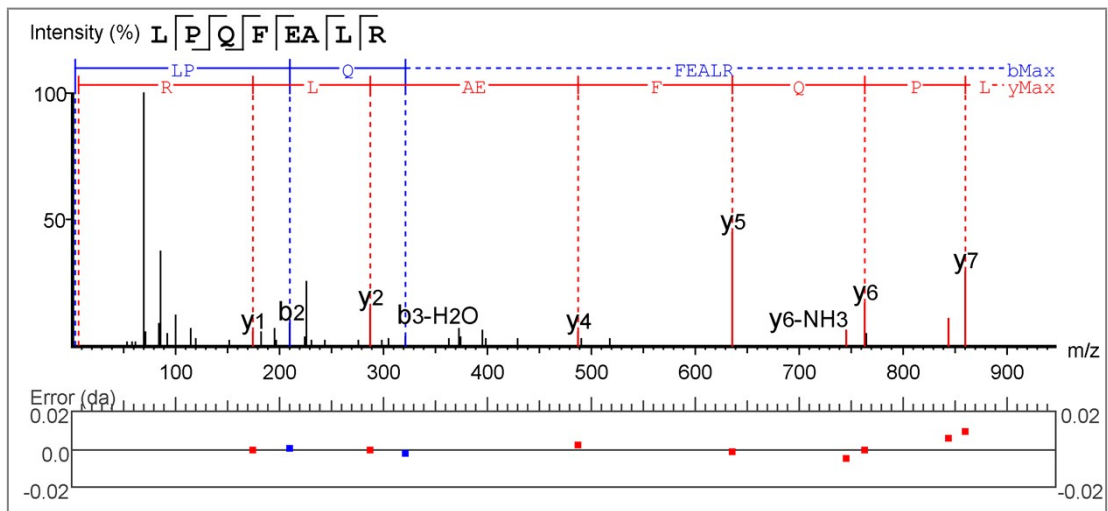


Fig. S7 The secondary mass spectrum of LPQFEALR

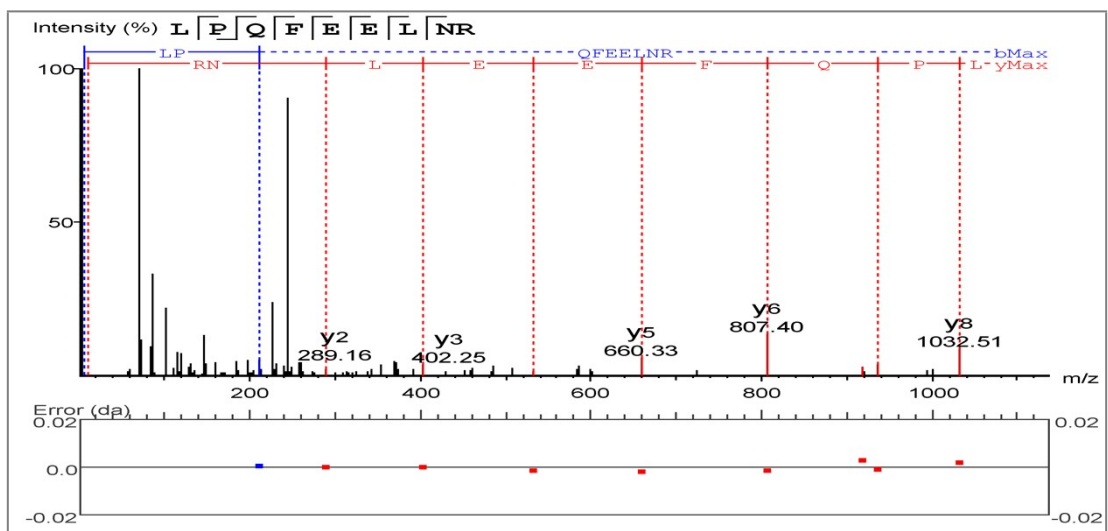


Fig. S8 The secondary mass spectrum of LPQFEELNR

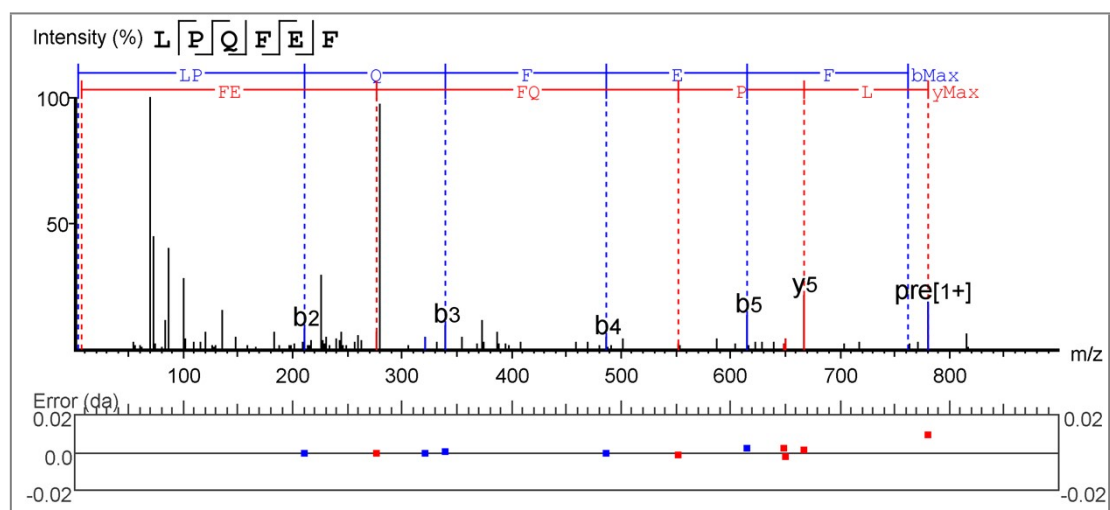


Fig. S9 The secondary mass spectrum of LPQFEF