Electronic Supplementary Material (ESI) for Food & Function.
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Supplemental materials

Peptide synthesis

Peptides were custom-synthesized by Aite Biotechnol Ltd. (Nanjing, China) using standard Fmoc method. HPLC-MS (Waters ZQ 2000, Waters, USA) was used to measure molecular weight and purity with the following parameter settings: chromatographic column Gemini-NX 5μ C18 110A (4.6×250 mm); solvent A (0.1% Trifluoroacetic Acid in 100% Acetonitrile); splvent B (0.1% Trifluoroacetic Acid in 100% Water); gradient parameters including 0.0 min (A:B=15:85), 25 min (A:B=40:60), 25.1 min(A:B=100:0), 30 min (stop); injection volume 20 μl; flow rate 1 ml/min; ion source ESI; assay wave length 220 nm.

HPLC-MS analysis (Fig.S1-S6) showed that the purity of the synthesized peptides P1,P2 and P3 is 98.7%,98.5% and 98.1%, the corresponding molecular weight is 1417.09, 2995.54 and 1504.64, respectively, the error is less than 0.1 %.

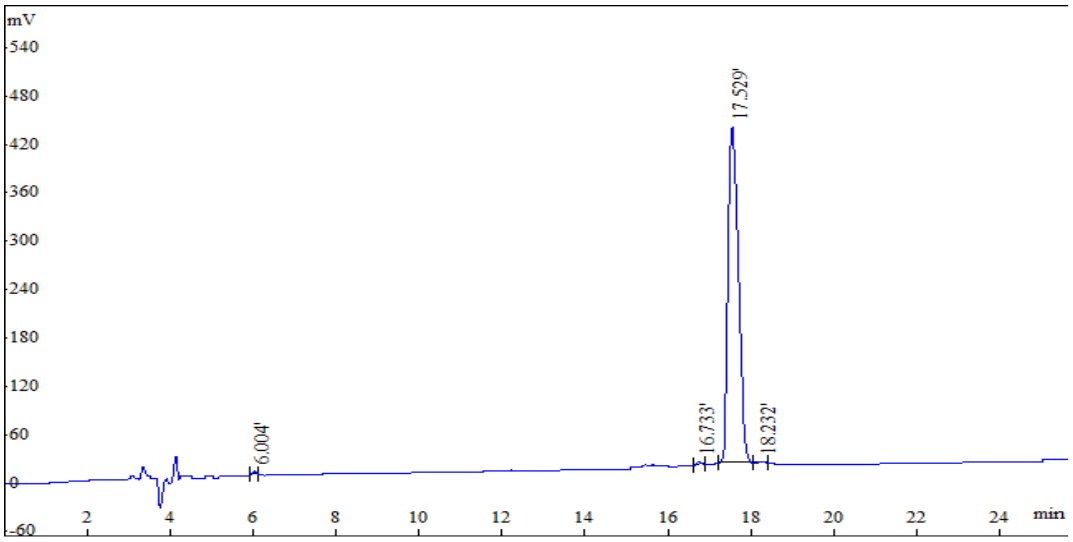

Fig.S1

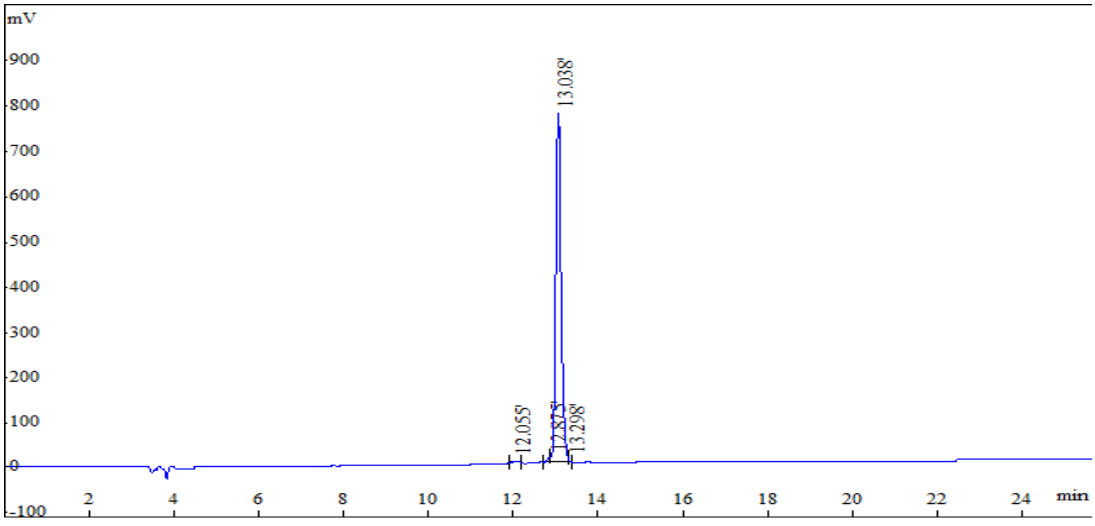

Fig.S2

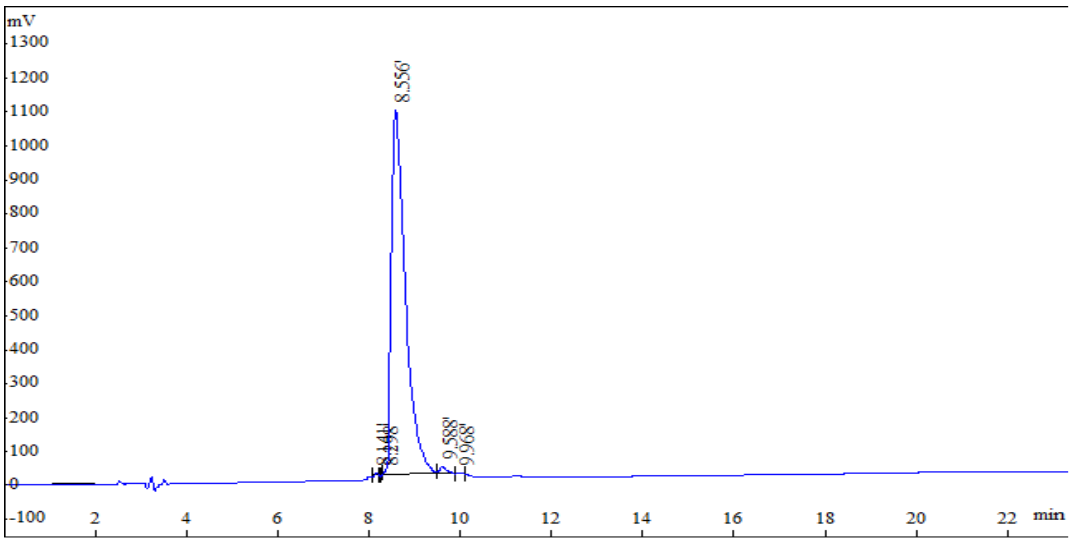

Fig.S3

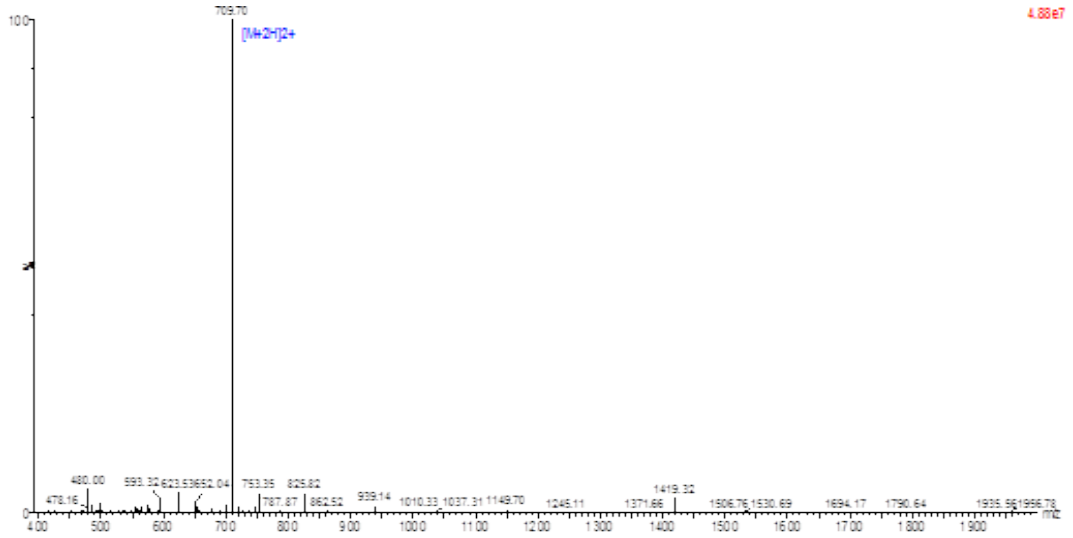

Fig.S4

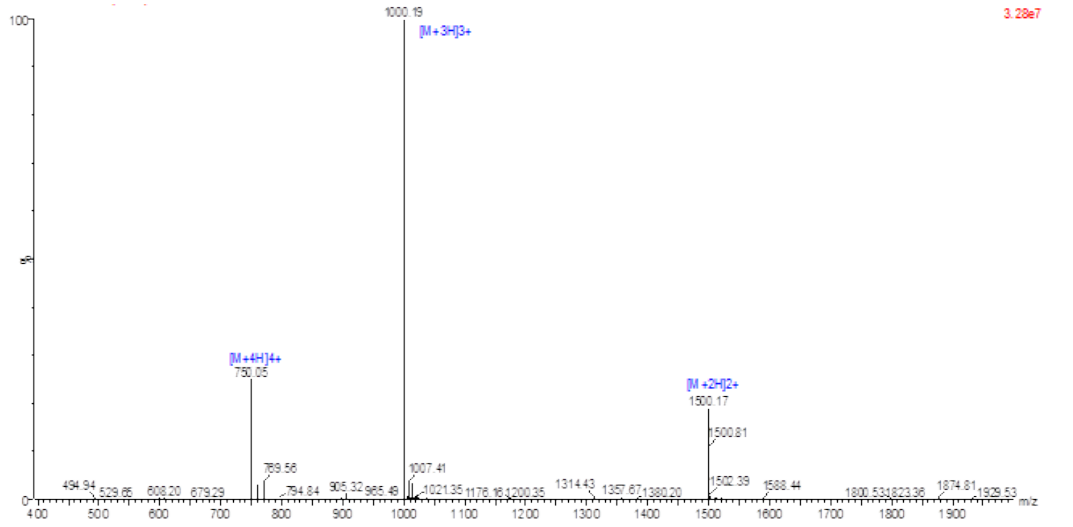

Fig.S5

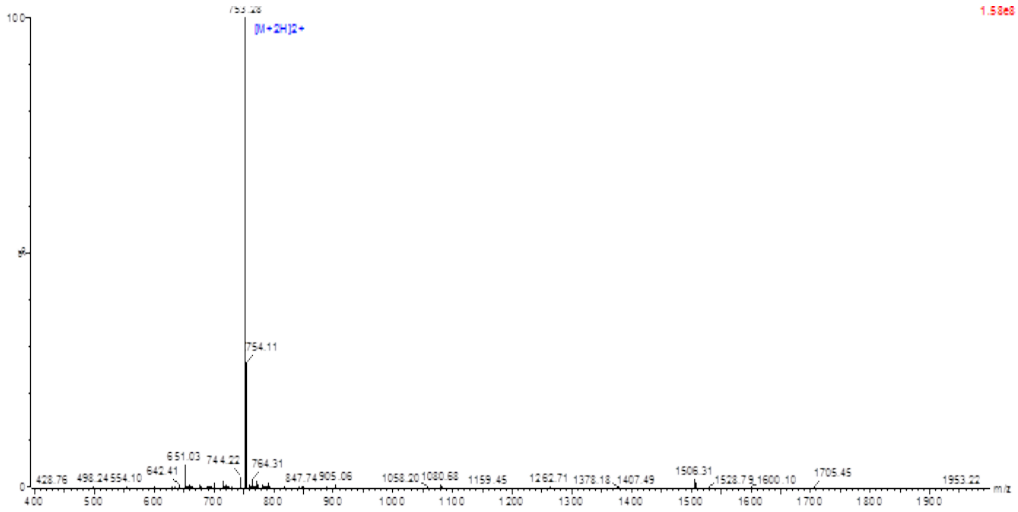

Fig.S6

Figure S1-S6 HPLC-MS analysis of the synthesized peptides P1,P2 and P3.