Supplementary Materials

Chitosan Covalently Functionalized with Peptides Mapped on Vitronectin and BMP-2 for Bone Tissue Engineering

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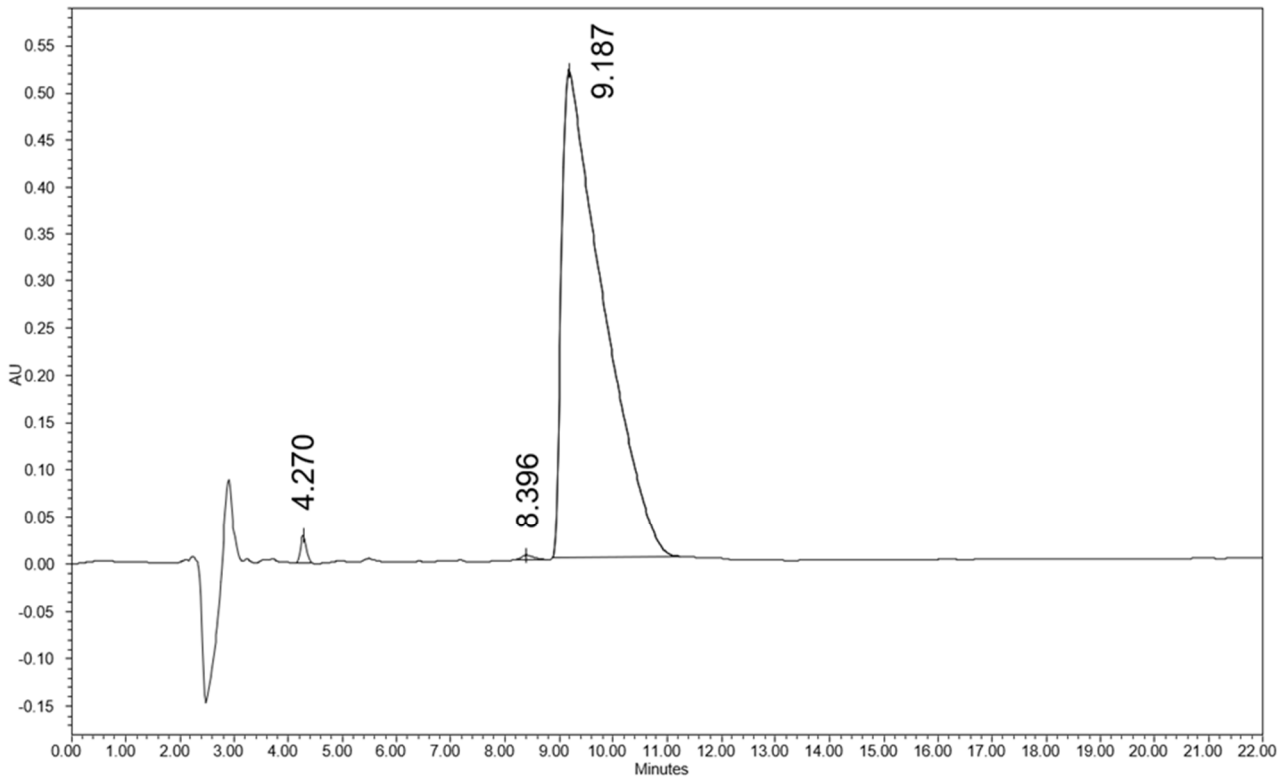

Figure S1. Analytical RP-HPLC chromatogram of purified S-X-HVP peptide. The analysis conditions were: Nova-Pak HR C_{18} (4 μm, 60 Å, 3.9 × 300 mm, Waters), injection volume, 35 μL of 1 mg/mL peptide solution; flow rate, 1 mL/min; eluent A, 0.05% TFA in water; eluent B, 0.05% TFA in CH_3CN; gradient, from 13%B to 23%B in 20 min, detection at 214 nm. The retention time results 9.187 min.

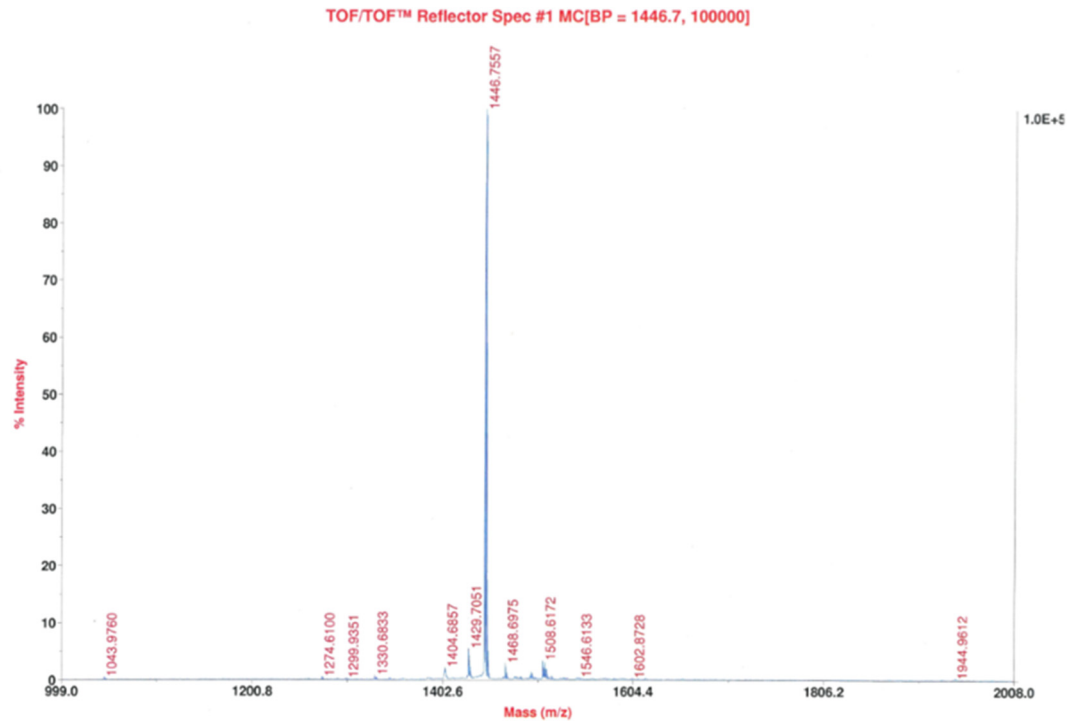

Figure S2. Mass analysis of S-X-HVP peptide. MALDI-TOF evaluation confirmed the identity of the purified peptide. S-X-HVP: experimental mass = 1446.7 Da, theoretical mass = 1446.6 Da.

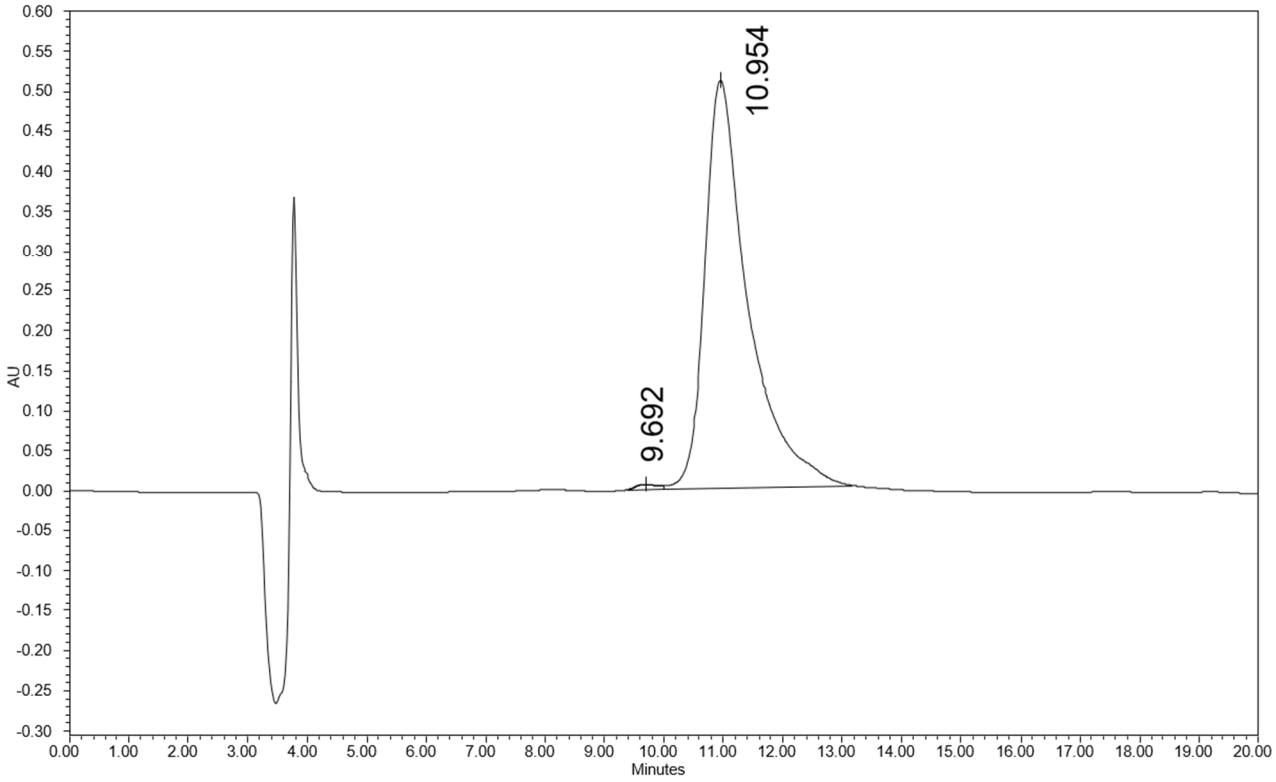

Figure S3. Analytical RP-HPLC chromatogram of purified GBMP1a. The analysis conditions were: Jupiter C_{18} (5 μm, 300 Å, 4.6 × 250 mm, Phenomenex), injection volume, 100 μL of 1 mg/mL peptide solution; flow rate, 1 mL/min; eluent A, 0.05% TFA in water; eluent B, 0.05% TFA in CH_3CN; gradient, from 31%B to 41%B in 20 min, detection at 214 nm. The retention time results 10.954 min.

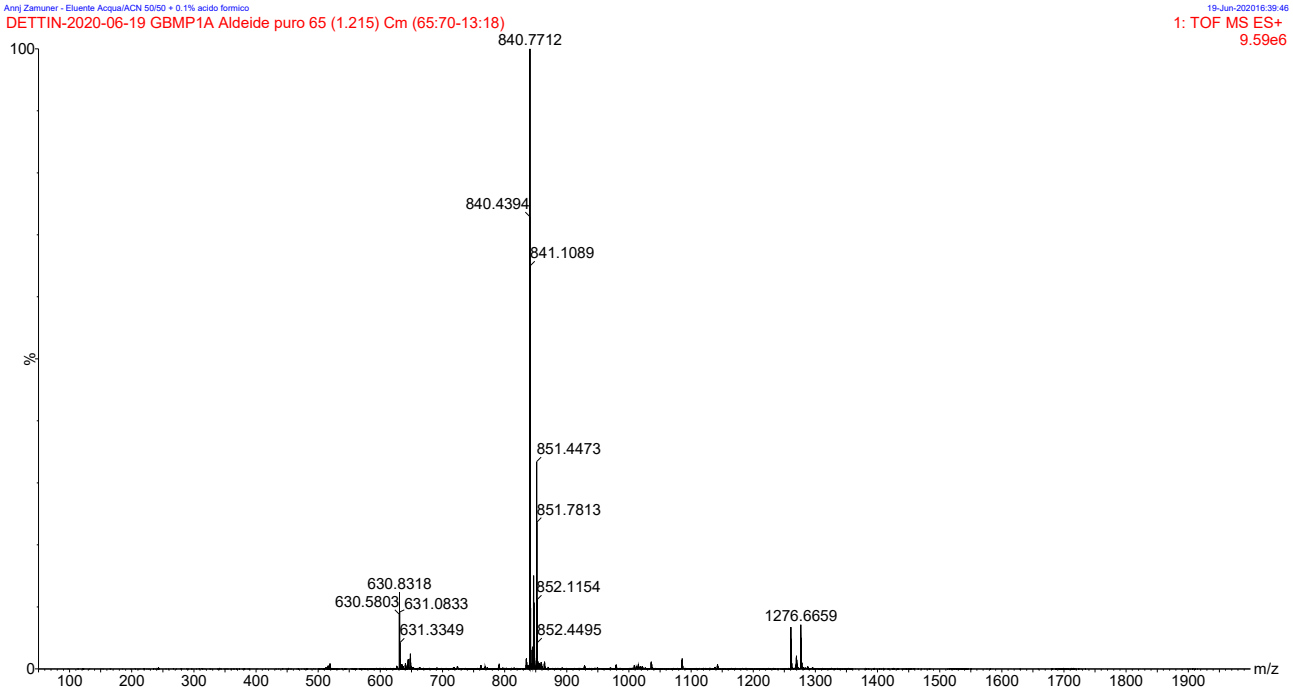

Figure S4. Mass analysis of GBMP1a peptide. ESI-TOF evaluation confirmed the identity of the purified peptide. GBMP1a: experimental mass deconvolution = 2519.3 Da, theoretical mass = 2519.8 Da.

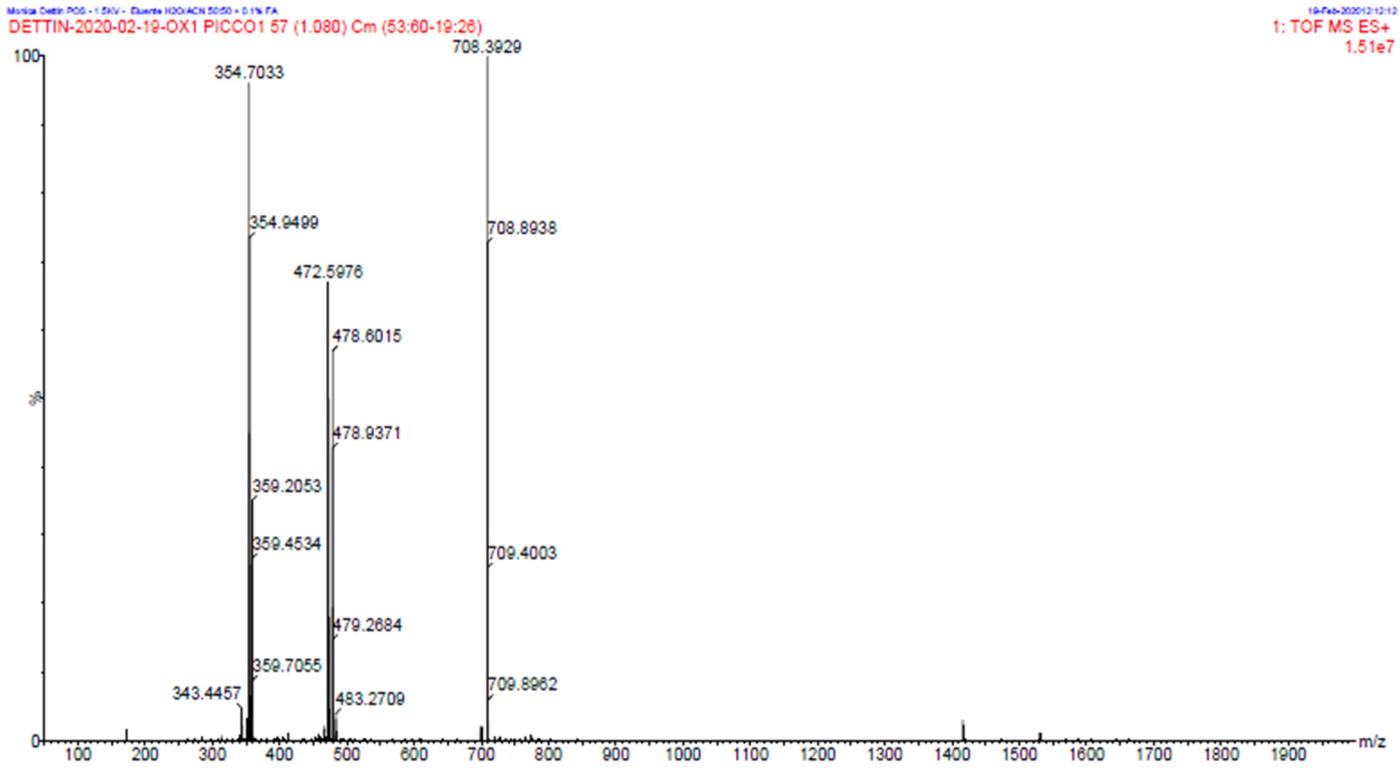

Figure S5. Mass analysis of ald-X-HVP peptide. ESI-TOF evaluation confirmed the identity of the purified peptide. Ald-X-HVP: experimental mass = 1414.8 Da, theoretical mass = 1415.6 Da.