

## Supplemental Material

### **A Hyaluronan-binding Peptide (P15-1) Reduces Inflammatory and Catabolic Events in IL-1 $\beta$ -treated Human Articular Chondrocytes**

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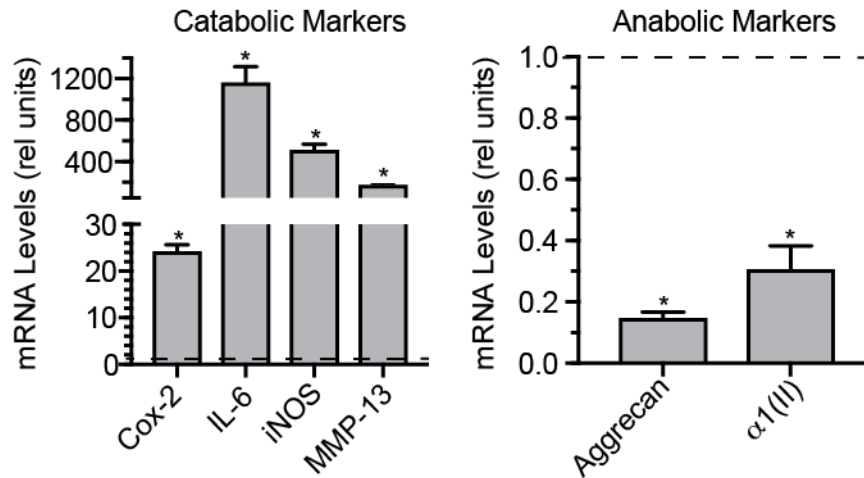
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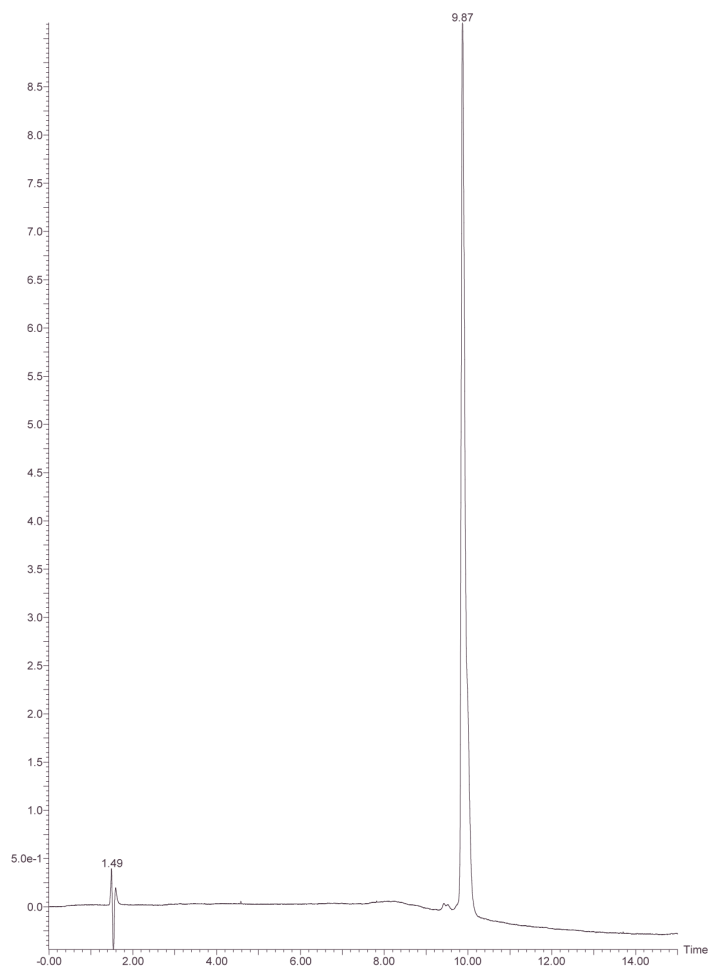
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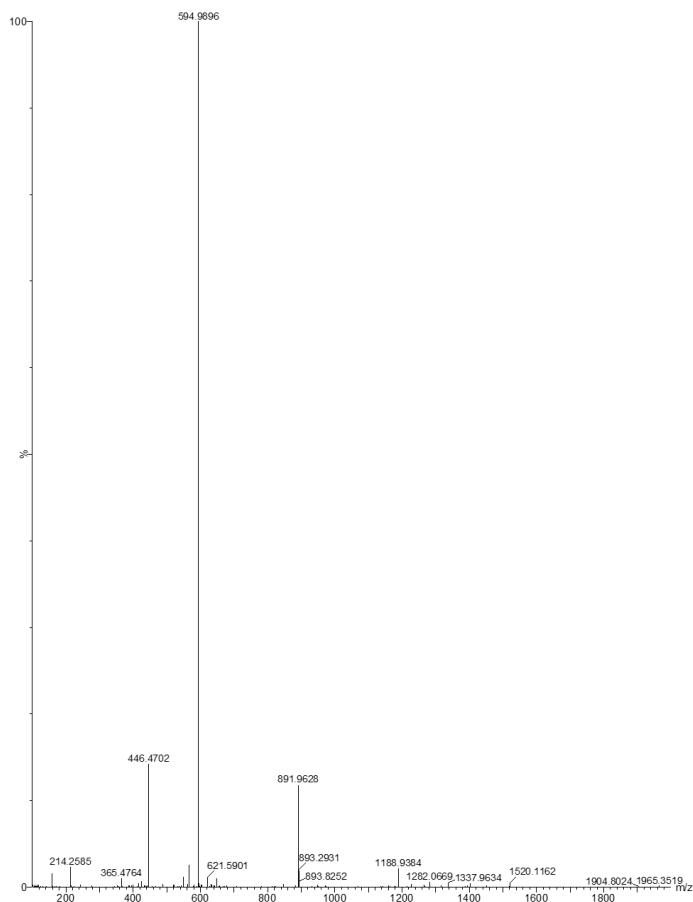
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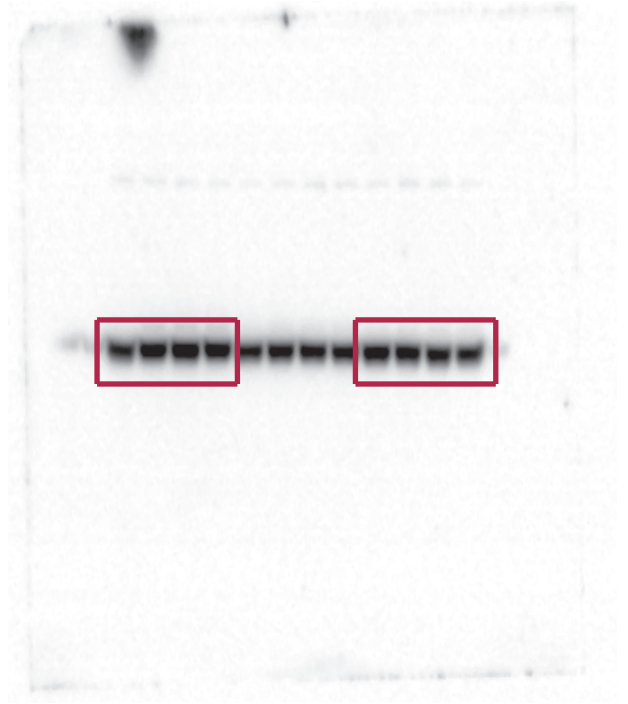
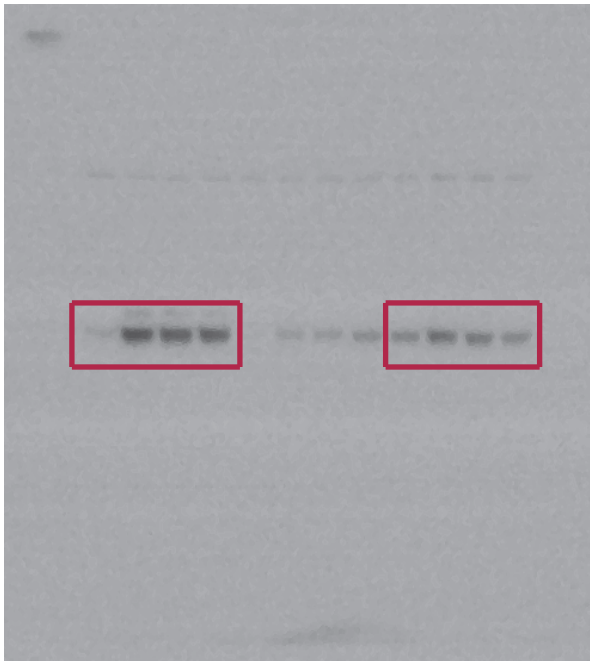
**Suppl. Figure 1:** mRNA levels of catabolic markers and anabolic markers in human articular chondrocytes cultured in the absence or presence of IL-1 $\beta$ . Human articular chondrocytes after reaching confluency were serum-starved for 24 h followed by treatment with IL-1 $\beta$  in PBS/0.1% BSA or PBS/0.1% BSA for 24 h. mRNA levels of catabolic markers (Cox-2, IL-6, iNOS, MMP-13), articular cartilage markers (aggrecan, type II collagen ( $\alpha 1(\text{II})$ )) were determined by real-time PCR using SYBR Green and normalized to the level of 18S RNA. The mRNA levels are expressed relative to the levels of vehicle-treated cells, which were set as 1 (dotted line). Data were obtained from triplicate PCRs using RNA from 3 different cultures. Values are the mean  $\pm$  SD. \* $p < 0.01$  vs. vehicle-treated cells.



**Suppl. Figure 2:** UV Chromatogram of the P15-1 fraction analyzed by analytical Reversed-Phase High Performance Liquid Chromatography (RP-HPLC).



**Suppl. Figure 3:** MS Spectra of P15-1. Purity >95%. HRMS (ESI+): m/z calculated for  $C_{71}H_{120}N_{28}O_{22}S_2$ , Calculated  $[M+2H]^{+2} = 891.9378$ ; Found  $[M+2H]^{+2} = 891.9628$ , Calculated  $[M+3H]^{+3} = 594.6270$ ; Found  $[M+3H]^{+3} = 594.9896$ .



Supplementary Figure 4.

Full-lengths blots used to generate Figure 3A.