

**ADVANCED  
HEALTHCARE  
MATERIALS**

Supporting Information

for *Adv. Healthcare Mater.*, DOI: 10.1002/adhm.201600668

**A Truncated IL-17RC Peptide Ameliorates Synovitis and  
Bone Destruction of Arthritic Mice**

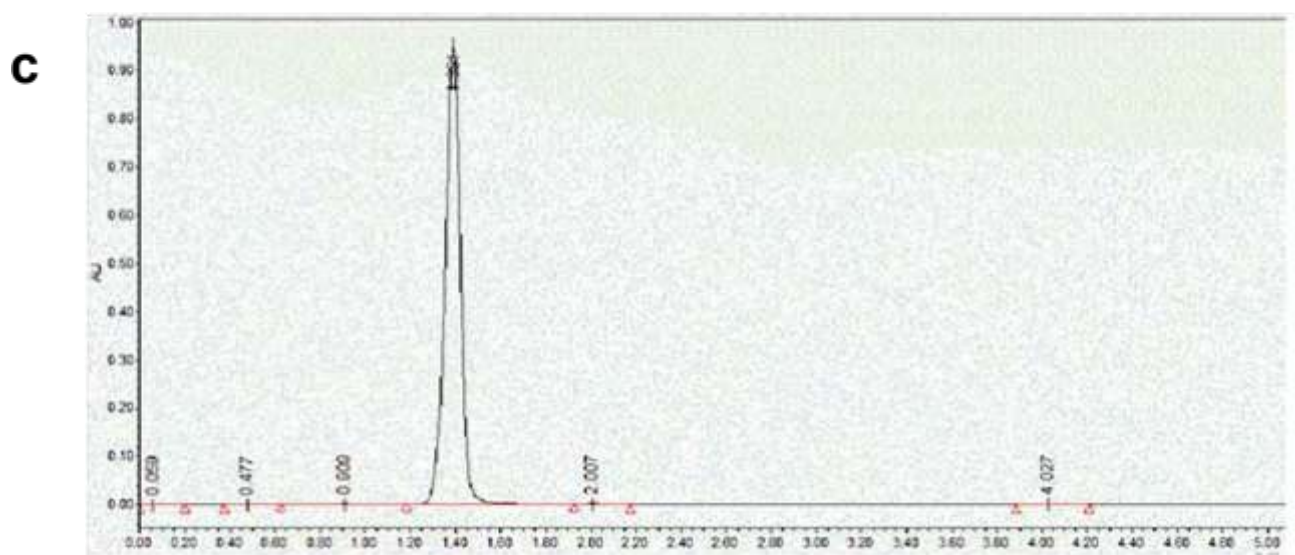
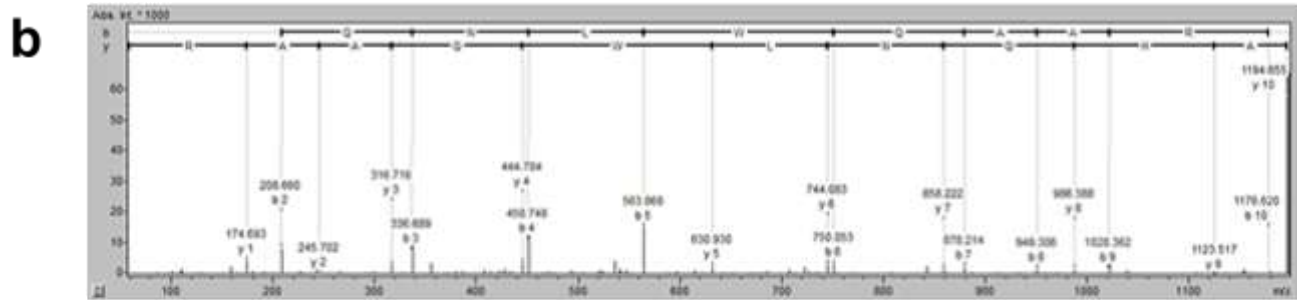
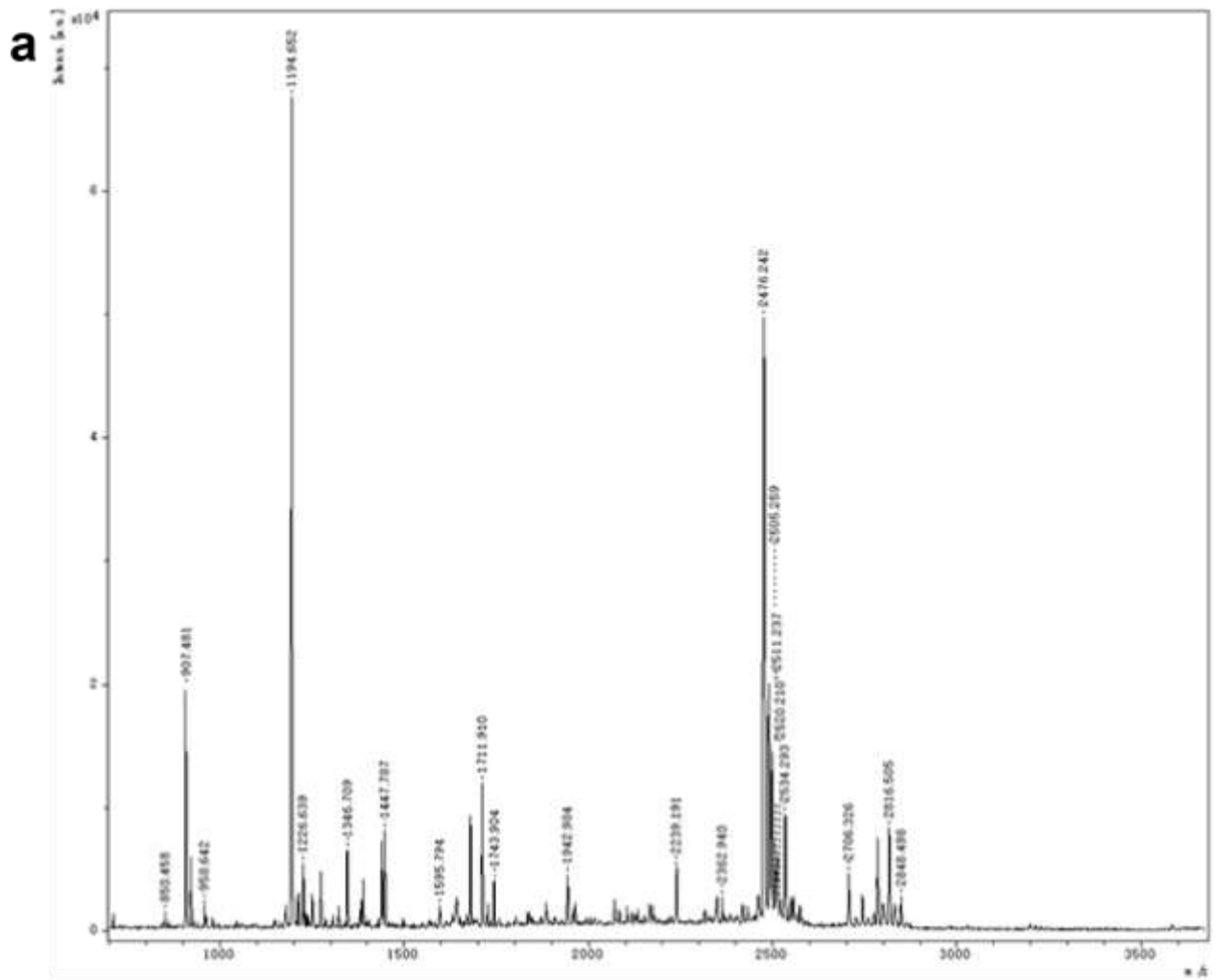
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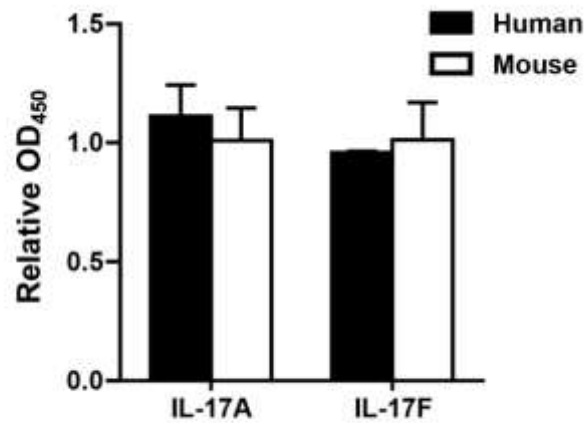
**Title: A Truncated IL-17RC Peptide Ameliorates Synovitis and Bone Destruction of Arthritic Mice**

*Yuxuan Du, Yulong Tong, Wentong Mei, Junhui Jia, Menglin Niu, Wei Cao, Weiwei Lou, Shentao Li, Zhanguo Li, W. Alexander Stinson, Huihui Yuan<sup>\*</sup>, and Wenming Zhao<sup>\*</sup>*



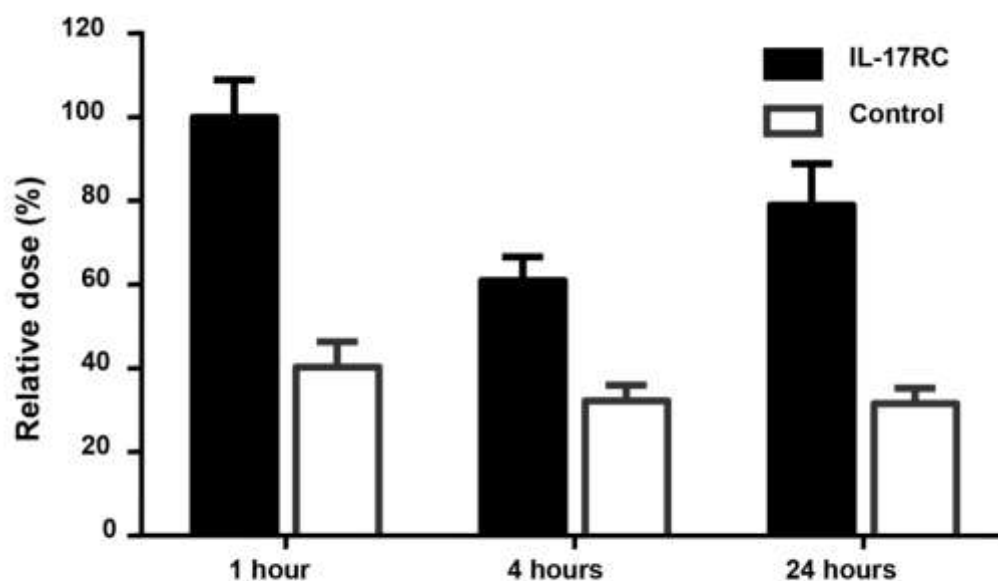
**Supplementary Figure 1. The mass spectroscopy (MS) and high performance liquid chromatography (HPLC) of truncated IL-17RC peptide.**

a, MS1; b, MS2; c, HPLC.



**Supplementary Figure 2. The relative affinities of truncated IL-17RC peptide to mouse and human IL-17A/F.**

The binding capacity of IL-17RC to mouse or human IL-17A/F was performed by ELISA. The data showed that no significant difference in the relative affinities of soluble IL-17RC to mouse or human IL-17A/F. The results demonstrated that the homology of the truncated peptide (IL-17RC) is comparatively high between human and mouse.



**Supplementary Figure 3. The concentration changes of truncated IL-17RC peptide in serum.**

Truncated IL-17RC peptide (1.25mg/kg) was injected intraperitoneally (i.p.) into each mouse, blood was collected for various time points, and level of IL-17RC peptide was determined in mouse sera by ELISA. The data showed that the IL-17RC level declined by ~40% four hours after i.p. injection. However, the IL-17RC level displayed a trend of rising in serum 24 hrs after i.p. injection. The possible explanation was that IL-17RC peptide distributed from blood to tissues and organs, and then reentered into the blood from these organs again.