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Supplemental information

Adipocyte-derived chemerin rescues lipid overload-induced cardiac dysfunction

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Table S1. Antibodies used in this paper, Related to Figure 1, 4, 5, 6.

Antibody	Company	Cat number
Chemerin	Santa Cruz Technology	sc-373797
CMKLR1	Abcepta	AP50620
HSP90	Cell Signaling Technology	4877s
PPAR γ	Cell Signaling Technology	2443S
p-P38	Cell Signaling Technology	4511S
P38	Cell Signaling Technology	9212S
p-P65	Cell Signaling Technology	3033S
P65	Cell Signaling Technology	8242S
p-Akt	Cell Signaling Technology	4058S
Akt	Cell Signaling Technology	9272S

Table S2. Primers for qRT-PCR, Related to Figure 5, 6.

Primers	Sequence (5'-3')	
<i>Rarres2</i>	Forward	GCCTGGCCTGCATTAATAATGG
	Reverse	CTTGCTTCAGAATTGGGCAGT
<i>Cmklr1</i>	Forward	GCCAACATACACGATGTTCGC
	Reverse	GGATGTTGGGGTGTAGTGGG
<i>18s</i>	Forward	CGCCGCTAGAGGTGAAATTCT
	Reverse	CATTCTTGGCAAATGCTTTTCG
<i>ACC</i>	Forward	CACCAGTTTTGCATTGAGAAC
	Reverse	TACGCTGTTGAGTTCATAGGC
<i>SREBP-1c</i>	Forward	AGGGCAATGAGGTCACATCC
	Reverse	GCAAGAAGCGGATGTAGTCCG
<i>PPARγ</i>	Forward	AGAACCTGCATCTCCACCTTA
	Reverse	CCCACAGACTCGGCACTCAAT
<i>LXRα</i>	Forward	GCCTCAATGCCTGATGTTTCTC
	Reverse	GCTGACTCCAACCCTATCCCTAA
<i>DGAT1</i>	Forward	GTTTCCGTCCAGGGTGGTAGT
	Reverse	TGGCACCTCAGATCCCAGTAG
<i>DGAT2</i>	Forward	GCCTGGGTGCCTTCTGTAA
	Reverse	AGTCTATGGTGTCTCGGTTGA
<i>PPARα</i>	Forward	ACAAGTGCCTGTCTGTCCG

	Reverse	TCAGGTAGGCTTCGTGGAT
<i>CPT1</i>	Forward	GTGTCCAAGTATCTGGCAGTC
	Reverse	TCAGGGTATTTCTCAAAGTCAA
<i>LACD</i>	Forward	AGCCTCCACTCAGATATTGTCA
	Reverse	TGGCGTTCGTTCTTACTCCTTGT
<i>CD36</i>	Forward	TGGTCAAGCCAGCTAGAAA
	Reverse	TCCAAGTAAGGCCATCTC
<i>TNF-α</i>	Forward	CGTCGTAGCAAACCACCAA
	Reverse	GGCAGCCTTGTCCTTGA
<i>IL-1β</i>	Forward	GCTGCTTCCAAACCTTTGACC
	Reverse	GAGTGATACTGCCTGCCTGAA
<i>IL-6</i>	Forward	GACAACCACGGCCTTCCCTAC
	Reverse	TCATTTCCACGATTTCCAGA

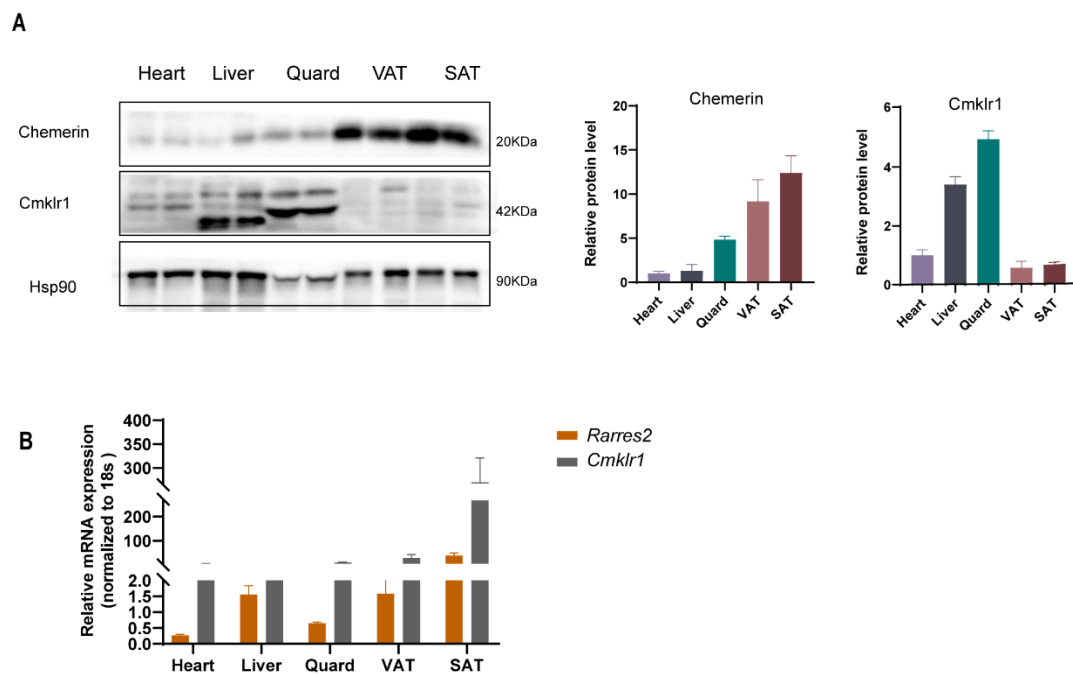


Figure S1. The expression of chemerin and its receptor in various organs of mice under high-fat feeding, Related to Figure 1

Chemerin and Cmk1r1 expression was detected in different tissues in WT mice under HFD 20

weeks **(A)** Western blots and its quantification of Chemerin, Cmk1r1 in the heart, liver, skeletal muscle, and adipose tissue lysates. The HSP90 was used as a loading control (n=3). **(B)** mRNA level of chemerin (*Rarres2*) and *CMKLR1* were detected by RT-qPCR in HFD WT mice.