

Supplementary materials

Table S1. Sequences of primers used for qPCR

Genes	Primer sequences (5'-3')
GADPH (mouse)	Forward: AGAAGGTGGTGAAGCAGGCATCT Reverse: CGGCATCGAAGGTGGAAGAGTG
OCN	Forward: TTCTGCTCACTCTGCTGACC Reverse: GCCGGAGTCTGTTCCTACTACC
Runx2	Forward: TTCCAGACCAGCAGCACTCCAT Reverse: TTCCATCAGCGTCAACACCATCATT
ALP	Forward: GGCTACTTCTTCGTGGAG Reverse: GCGTGAGTGTTCTTGTCT
NQO1	Forward: AGCCAATCAGCGTTCGGTAT Reverse: GCCTCCTTCATGGCGTAGTT
Nrf2	Forward: AACAGAACGGCCCTAAAGCA Reverse: TGGGATTACGCATAGGAGC

Abbreviations: qPCR, quantitative real-time polymerase chain reaction; GAPDH, glyceraldehyde-3-phosphate dehydrogenase; OCN, osteocalcin; Runx2, runt-related transcription factor 2; ALP, alkaline phosphatase; NQO1, quinone oxidoreductase 1; Nrf2, NF-E2-related factor 2.

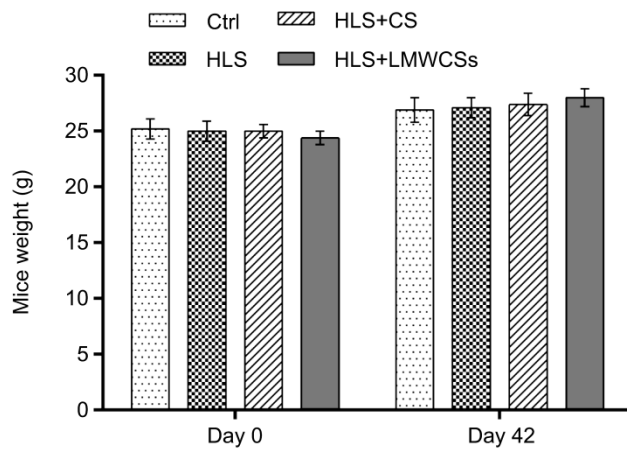


Figure S1. Body weight changes in all groups (n=6 per group)

Ctrl: control group; HLS: hindlimb suspension group; HLS + CS: hindlimb suspension and treated with chondroitin sulfate group; HLS + LMWCSs: hindlimb suspension and treated with low-molecular-weight chondroitin sulfates group.