

**Additional file 4: Table S4** Mean  $\pm$  SD of the serum MMP-13 concentration before and after intra-articular administration.

Group	Before treat	3 days	1 week	2 weeks	4 weeks	10 weeks
Control	2.272 $\pm$ 0.81	2.007 $\pm$ 0.37	2.043 $\pm$ 0.49	1.955 $\pm$ 0.31	2.091 $\pm$ 0.47	1.886 $\pm$ 0.22
MSCs	3.452 $\pm$ 0.91	2.946 $\pm$ 0.95	2.703 $\pm$ 0.18	2.559 $\pm$ 0.47	2.495 $\pm$ 0.46	2.654 $\pm$ 0.67
PDGF-MSCs	2.141 $\pm$ 0.39	2.065 $\pm$ 0.38	2.061 $\pm$ 0.41	2.118 $\pm$ 0.37	2.003 $\pm$ 0.33	2.043 $\pm$ 0.35
HO-1-MSCs	3.386 $\pm$ 0.21	3.314 $\pm$ 0.11	3.367 $\pm$ 0.12	3.284 $\pm$ 0.11	3.277 $\pm$ 0.07	3.221 $\pm$ 0.10