

Supplementary table 1

Nitrogen adsorption-desorption isotherm analysis of SrMBG powder

Parameters	0 SrMBG	2.5 SrMBG	5 SrMBG
BET Surface Area	399.2790 m ² /g	504.3611 m ² /g	515.9882 m ² /g
Pore Volume	0.799429 cm ³ /g	0.735730 cm ³ /g	0.694634 cm ³ /g
Average Pore Size	6.9131 nm	6.0546 nm	5.3569 nm

Supplementary table 2

Primer sequences of macrophage polarization related gene

Gene	Primer sequences (5'-3')
GAPDH	Forward: ACCCAGAAGACTGTGGATGG Reverse: CACATTGGGGGTAGGAACAC
iNOS	Forward: CACCAAGCTGAACTTGAGCG Reverse: CGTGGCTTTGGGCTCCTC
IL-6	Forward: CCTCTGGTCTTCTGGAGTACC Reverse: GGAGAGCATTGGAAATTGGGG
IL-10	Forward: GAGAAGCATGCCCCAGAAATC Reverse: GAGAAATCGATGACAGCGCC
CD206	Forward: TGCCTACTGCCTGCCCTAATC Reverse: GTCCCATCGCTCCACTCAAAG

Supplementary table 3

Primer sequences of osteogenesis related gene

Gene	Primer sequences(5'-3')
GAPDH	Forward: GCCTTCCGTGTTCTACC Reverse: AGAGTGGGAGTTGCTGTTG
ALP	Forward: GCGTCCATGAGCAGAACTACATC Reverse: CAGGCACAGTGGTCAAGGTTGG
RUNX2	Forward: GACTGTGGTTACCGTCATGGC Reverse: ACTTGGTTTTTCATAACAGCGGA