**Supplementary Information:**

**Chitosan Hydrogel Enhances the Therapeutic Efficacy of BMSCs for Myocardial Infarction by Alleviating Vascular Endothelial Cell Pyroptosis**

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**Supplemental Table 1**: Primers used for real-time PCR

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| Gene | Forward primer | Reverse primer |
| mEGF | TTGACAAGTGGCAGGAGGTC | ATCCCTACGTCCGTCCAGAA |
| mPGF | ACTTGGGAACACAAGAAGCCT | CTCTCCAGAGCCGAATGTCC |
| mHGF | TTCTTTCAGCCCGGCATCTC | CAAGAACTTGTGCCGGTGTG |
| mIGF-1 | GCATACCTGCCTGGGTGTC | TTTGTCGATAGGGACGGGGA |
| mTNF-α | ACAGAAAGCATGATCCGCG  | GCCCCCCATCTTTTGGG |
| mIL-6 | GAGGATACCACTCCCAACAGACC | AAGTGCATCATCGTTGTTCATACA |
| mIL-18 | AGCAGTGGTTTTCAGCTGGG | GGCAGGAGTCCAGAAAGCAT |
| mCaspase-11 | TGCAGAGCTATTACTCGCGG | GAGGCTTGGACGTGACTTGA |
| mCaspase-1 | GAAACGCCATGGCTGACAAG | ACTTGAGGGTCCCAGTCAGT |
| mGAPDH | CCCTTAAGAGGGATGCTGCC | ACTGTGCCGTTGAATTTGCC |
| hIL-1β | CAACCAACAAGTGATATTCTCCATG  | GATCCACACTCTCCAGCTGCA |
| hIL-18 | AAGATGGCTGCTGAACCAGT | GAGGCCGATTTCCTTGGTCA |
| hCaspase-1 | ATGGCCGACAAGGTCCTC | TTAATGTCCTGGGAAGAGGTA |
| hNLPR3 | GCTGGCATCTGGGGAAACCT | CTTAGGCTTCGGTCCACACA |
| hGSDMD | CTCGCCGACTTCCGTAAACT | TCCAGCGATCCTGGGTTCTA |
| hICAM-1 | TCTTCCTCGGCCTTCCCATA | AGGTACCATGGCCCCAAATG |
| hGAPDH | AATGGGCAGCCGTTAGGAAA | GCGCCCAATACGACCAAATC |

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**Supplemental Figure:**



**Supplemental Figure 1.** (A) Quantitative data of the expression of Pro-caspase-1 and GSDMD. (B) Quantitative data of the expression of Cleaved-caspase-1. Data are expressed as mean ± SEM. \*P < 0.05 versus PBS; #P < 0.05 versus BMSCs-CM. All experiments were performed in triplicate. BMSCs-CM, BMSCs conditioned medium; BMSCs/CS-CM, conditioned medium of co-culture BMSCs with CS hydrogel.