Supplementary Material

Figure S1 Histological analysis of hearts harvested 28 days after MI. A) Images from four-treated groups showing morphological changes with H&E staining of heart paraffin sections. B) Images from four-treated groups showing myocardial fibrosis with MT staining of heart paraffin sections. Figure S2 showed blood chemistry profile analysis and complete blood count (CBC) after treatment with different formulations. Figure S3 displayed histological analysis of H&E staining of main organs paraffin sections for safety evaluation. Figure S4 IHC analysis of expression of A) CD31 and B) Ki-67 in heart sections of different groups after treated for 28 days. Figure S5 Immunostaining of M2 macrophages in heart sections. A) Sham group; B) NS group; C) h-HA group and D) o-HA group. E) CD206⁺ M2 macrophage in heart tissues. (P<0.001)