Supplementary Material

1. Supplementary table

**Supplementary table 1.** List of quantitative RT-PCR Primer Sequences

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| **Gene name** | **Forward primer sequence (5' → 3')** | **Reverse primer sequence (5' → 3')** |
| GAPDH | GTCTCCTCTGACTTCAACAGCG | ACCACCCTGTTGCTGTAGCCAA |
| IL-1β | ATGATGGCTTATTACAGTGGCAA | GTCGGAGATTCGTAGCTGGA |
| IL-6 | ACTCACCTCTTCAGAACGAATTG | CCATCTTTGGAAGGTTCAGGTTG |
| iNOS | TTCAGTATCACAACCTCAGCAAG | TGGACCTGCAAGTTAAAATCCC |
| TNF-α | CCTCTCTCTAATCAGCCCTCTG | GAGGACCTGGGAGTAGATGAG |
| COX-2 | CTGGCGCTCAGCCATACAG | CGCACTTATACTGGTCAAATCCC |
| HMOX-1 | AAGACTGCGTTCCTGCTCAAC | AAAGCCCTACAGCAACTGTCG |
| PRDX-1 | CCACGGAGATCATTGCTTTCA | AGGTGTATTGACCCATGCTAGAT |
| TXN | GTGAAGCAGATCGAGAGCAAG | CGTGGCTGAGAAGTCAACTACTA |
| Bad | CCCAGAGTTTGAGCCGAGTG | CCCATCCCTTCGTCGTCCT |
| Bax | CGAGAGGTCTTTTTCCGAGTG | GTGGGCGTCCCAAAGTAGG |
| Bcl-xl | CGGTACCGGCGGGCATTCAG | CGGCTCTCGGCTGCTGCATT |

1. Supplementary figures



**Supplementary Figure 1.** The effect of MenSCs on SH-SY5Y cell viability. MenSCs/DMEM was indirectly co-cultured with MPP+-injured SH-SY5Y cells for 24h, 48h, and 72h, respectively. Then cell viability was detected by Prestoblue and data was normalized by control group. Data was presented as mean ± SD. Comparisons between 2 groups were analyzed by Student-t test. NS: no significant difference.



**Supplementary Figure 2.** The effect of MenSCs-derived exosomes on SH-SY5Y cell viability. Different concentrations of MenSCs-Exo were added into MPP+-injured SH-SY5Y cells and cultured for 24h, 48h, and 72h, respectively. Then cell viability was detected by Prestoblue and data was normalized by control group. Data was presented as mean ± SD. Comparisons between 2 groups were analyzed by Student-t test. \*p<0.05 and \*\*p<0.01 compared with MPP+ + DMEM group; NS: no significant difference.



**Supplementary Figure 3.** The effect of exosomes deprived MenSCs-CM on SH-SY5Y cell viability. EDM was added into MPP+-injured SH-SY5Y cells and cultured for 24h, 48h, and 72h, respectively. Then cell viability was detected by Prestoblue and data was normalized by control group. Data was presented as mean ± SD. Comparisons between 2 groups were analyzed by Student-t test. \*p<0.05 compared with MPP+ + DMEM group; NS: no significant difference.