**Supplementary data**

**Aβ-induced damage memory in hCMEC/D3 cell mediated by sirtuin-1**

Running title: damage memory mediated by SIRT1

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| Figure 1 the time course of *p66*SHC levels in control group,  group and damage memory group. |

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| Figure 2 A: the change of *p66*SHC in SRT2104 treated hCMEC/D3 cell. B: the change of *p66*SHC in NAD+ supplement treated hCMEC/D3 cell. C: the change of *p66*SHC in EX527 treated hCMEC/D3 cell. D: the results of *p66*SHC level in the experimental validation of cerebrovascular endothelial cell damage memory formation time. |

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| Figure 3 A: the change of Mn-SOD in SRT2104 treated hCMEC/D3 cell. B: the change of Mn-SOD in NAD+ supplement treated hCMEC/D3 cell. C: the change of Mn-SOD in EX527 treated hCMEC/D3 cell. D: the results of Mn-SOD level in the experimental validation of cerebrovascular endothelial cell damage memory formation time. |

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| Figure 4 the intracellular A accumulation in group and control group. |