SUPPLEMENTARY FIGURES



Supplementary Figure 1. LDH assay was employed to detect cytotoxicity of ART on NSPCs. Data are presented as the mean \pm SEM (*p<0.05). ART: artesunate.



Supplementary Figure 2. The percentage of ki67 positive cells was increased by 0.8 μ mol/L ART. (A) Representative confocal images indicating DAPI (blue) and Ki67 (red) staining in NSPCs following ART treatment (0.8 μ mol/L). (B) Quantification of the ratio of ki67 positive cells after 72h. Data are shown as the mean ± SEM. *p<0.05. Scale bar = 15 μ m. ART: artesunate.



Supplementary Figure 3. ART induced preferred neuronal differentiation of NSPCs in vitro. (A) Representative immunostaining of DAPI+, DCX+ and GFAP+ (Scale bar=15 μ m). (B) Quantitative analyses of the Percentage of GFAP+ cells. (C) Quantitative analyses of the percentage of DCX+ cells. *p<0.05. ART: artesunate.



Supplementary Figure 4. Systemic administration of ART exhibits no effects on mice survival rate and body weight. (A) Survival rate at 0, 1, 3, 7, and 14 days post-MCAO. (B) Bodyweight changes measured at 0, 1, 3, 7, and 14 days following MCAO. Data are shown as the mean \pm SEM,*p<0.05. ART: artesunate.



Supplementary Figure 5. ART promoted neurogenesis after MCAO. (A) Representative immunostaining of BrdU+, DCX+ and or GFAP+ in SVZ 3 days after MCAO (Scale bar=100 μ m). (B) Quantitative analyses of the normalized numbers of DCX+ and BrdU+ cells. (C) Quantitative analyses of Percentage of DCX+BrdU positive cells/BrdU positive cells. (D) Quantitative analyses of Percentage of GFAP+BrdU positive cells/BrdU positive cells. *p<0.05, **p<0.01 vs. MCAO+Veh group. ART: artesunate.