**SUPPLEMENTARY FIGURES:**



**Supplementary Figure 1.**(**A**) Am80 attenuated brain water content at 24 h after SAH. Quantification of brain water content in the left hemisphere, right hemisphere, cerebellum, and brainstem at 24 h after SAH. n=6 per group. Error bars represent mean ± SD. **\****P*<0.05 vs sham group; **\*\****P*<0.01 vs sham group; **#***P*<0.05 vs SAH+vehicle group. (**B**)-(**D**) Am80 suppressed the mRNA expression of inflammatory factors (*IL-6*, *IL-1β* and *TNF-α*) at 24 h after SAH; these changes were abolished by AGN196996. Quantitative analyses of the mRNA expression of IL-6, *IL-1β* and *TNF-α*. n=3 per group. **\****P*<0.05 vs sham group; **\*\****P*<0.01 vs sham group; **#***P*<0.05 vs SAH+Am80 group; **@***P*<0.05 vs SAH+Am80 group; **&***P*<0.05 vs SAH+AGN196996+Am80 group. (**E**)-(**G**) Am80 suppressed the mRNA expression of inflammatory factors (*IL-6*, *IL-1β* and *TNF-α*) at 24 h after SAH; these changes were abolished by Msr1 siRNA and the PI3k selective inhibitor LY294002. Quantitative analyses of the mRNA expression of *IL-6*, *IL-1β* and *TNF-α*. n=3 per group. **\****P*<0.05 vs SAH group; **\*\****P*<0.01 vs SAH group; **#***P*<0.05 vs SAH+Scr siRNA+Am80 group; **##***P*<0.01 vs SAH+Scr siRNA+Am80 group; **&***P*<0.05 vs SAH+DMSO+Am80 group.



**Supplementary Figure 2.**

(**A**)-(**B**) Representative western blot bands and quantification of Msr1 demonstrated the knockdown efficacy of Msr1 siRNA in Sham and SAH groups. n=3 per group. **\****P*<0.05 vs Sham+Scr siRNA group; **#***P*<0.05 vs SAH+Scr siRNA group.

**SUPPLEMENTARY TABLE 1**

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| Primers used in real-time qRT-PCR reactions |
| Gene | Upstream primers | Downstream primers |
| *IL-6* | 5'-TAGTCCTTCCTACCCCAACTTCC-3' | 5'-TTGGTCCTTAGCCACTCCTTC-3' |
| *IL-1β* | 5'-CCTATGTCTTGCCCGTGGAG-3' | 5'-CACACACTAGCAGGTCGTCA-3' |
| *TNF-α* | 5'-GCCACCACGCTCTTCTG-3' | 5'-GCAGCCTTGTCCCTTGA-3' |
| GAPDH | 5'-CCCACTAACATCAAATGGGG-3' | 5'-ATCCACAGTCTTCTGGGTGG-3' |