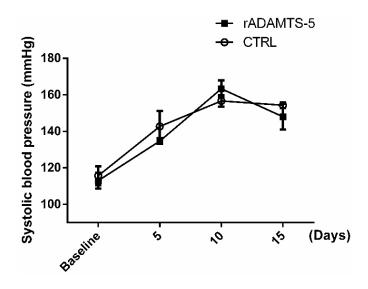
## Stereotaxic elastase injection & Osmotic pump implantation IA induction Beginning of drug administration Basal blood pressure measurement Blood pressure measurement-every 5 days Daily neurological examination Survival

## **Supplementary Figure 1. Experimental protocol for IA induction.** Male mice maintained with systemic hypertension induced by a chronic infusion of angiotensin II, meanwhile, also received a single stereotaxic injection of elastase to induce IAs. A neurological evaluation score during the next 15 days was used to identify symptomatic and asymptomatic IA mice.

animal body weight measurement

analysis



Supplementary Figure 2. Blood pressure assessment.

**Supplementary Figure 3. The chemical structure of ADAMTS-5 inhibitor.** Chemical name: (Z)-5-((5-((4-chlorobenzyl)thio)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl)methylene)-2-thioxothiazolidin-4-one.