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Highlights

- Delivery scAAV9-VEGF at 60 days of age could prolong the lifespan of ALS mice.
- VEGF treatment significantly reduced the number of microglia in CNS.
- Administration of VEGF inhibited the invasion of macrophages into PNS.

ABSTRACT

Amyotrophic lateral sclerosis (ALS) is a progressive neurodegenerative disorder leading to paralysis and death within 3-5 years. Although the vast majority studies focus on the vulnerable neurons, growing evidences showed that the non-neuronal cells contribute to pathogenesis and disease progression. Here, we showed that