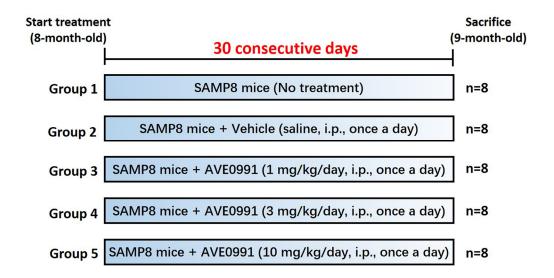
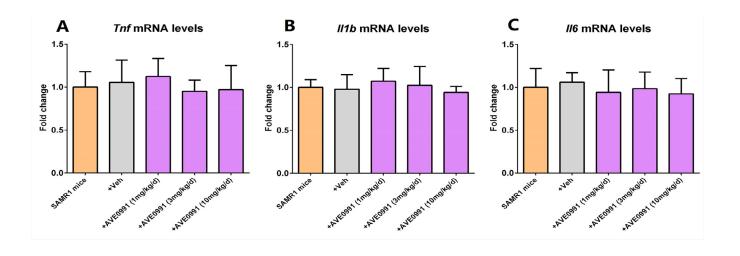
SUPPLEMENTARY MATERIAL



Supplementary Figure 1. Scheme of the animal experimental protocol. Eight-month-old SAMP8 mice were randomly allocated to five groups using a random number table generated by SPSS software (n=8 per group). They were injected intraperitoneally with vehicle (saline) or AVE0991 (1 mg/kg/day, 3 mg/kg/day or 10 mg/kg/day) once a day for 30 consecutive days.



Supplementary Figure 2. AVE0991 has no significant effect on inflammatory markers in the brains of SAMR1 control mice. In our preliminary experiments, eight-month-old SAMR1 mice were injected intraperitoneally with vehicle or AVE0991 (1, 3 or 10 mg/kg/day) for 30 days. Afterwards, mice were sacrificed for analysis. (A) The mRNA levels of *Tnf* in the brains were investigated by qRT-PCR. (B) The mRNA levels of *Il1b* in the brains were investigated by qRT-PCR. (C) The mRNA levels of *Il6* in the brains were investigated by qRT-PCR. *Gapdh* was used as an internal control, and data were expressed as a fold change relative to non-treated SAMR1 mice. All data were analyzed by one-way ANOVA followed by Tukey's post hoc test. Columns represent mean ± SD (n=5 per group).

Supplementary Table 1. Oligonucleotide sequences.

Primer	Sequence (5'-3')	GenBank accession number*
Arg1 forward	CTCCAAGCCAAAGTCCTTAGAG	NM 007482.3
Arg1 reverse	AGGAGCTGTCATTAGGGACATC	1111_007402.5
Gapdh forward	CAACAGCAACTCCCACTCTTC	NM 001289726.1
Gapdh reverse	GGTCCAGGGTTTCTTACTCCTT	NM_001289/20.1
Il1b forward	GAAGAGCCCATCCTCTGTGA	NM 008361.3
Il1b reverse	TTCATCTCGGAGCCTGTAGTG	NM_008301.3
Il6 forward	ACAAAGCCAGAGTCCTTCAGAG	NM 031168.1
<i>Il6</i> reverse	CATTGGAAATTGGGGTAGGA	NW_031106.1
Il10 forward	AGGCGCTGTCATCGATTTCTC	NM 010467.2
Il10 reverse	TGCTCCACTGCCTTGCTCTTA	NM_019467.2
Mas1 forward	CATCTAGGACTGGGCAGAGC	NM 008552.5
Mas1 reverse	AGTCAGGAGGTGGAGAGCAA	14141_008332.3
Retnla forward	TTGCAACTGCCTGTGCTTAC	NM 020509.3
Retnla reverse	CAAGAAGCAGGGTAAATGGG	11_020307.3
Tnf forward	GTCTACTGAACTTCGGGGTGAT	NM 013693.3
Tnf reverse	ATGATCTGAGTGTGAGGGTCTG	11191_013033.3

^{*}The GenBank accession numbers were obtained from the NCBI.