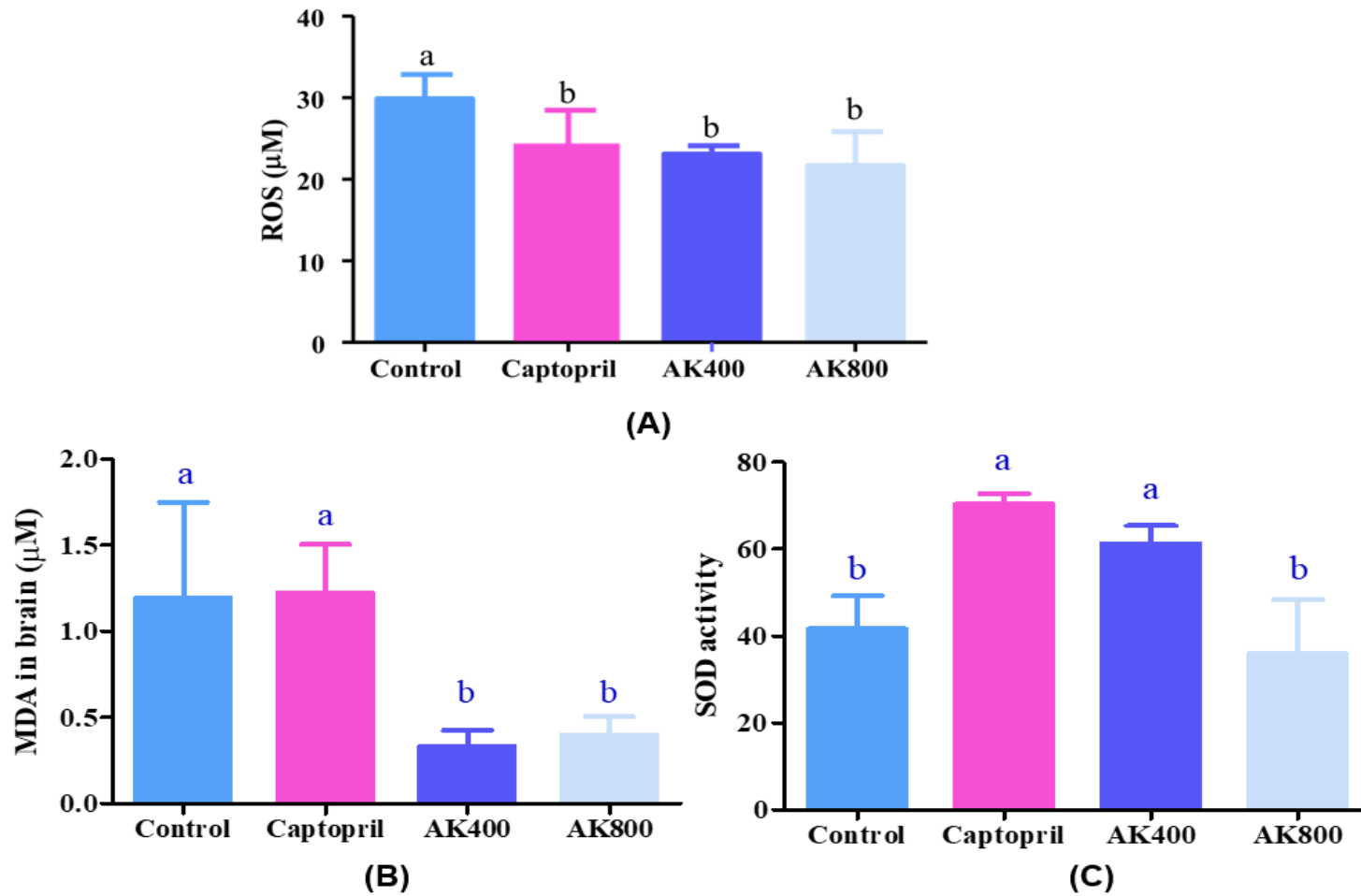


1

2 **Figure 1.** Protective effects of peptide extract with 3 kDa from beef myofibrillar protein by Alkaline-AK enzyme (AK3K) against oxidative damage in
 3 SH-SY5Y cells. (A) Flow cytometry analysis of the apoptotic ratio, (B) DNA fragmentation, (C) ROS generation, and (D) cell cytotoxicity. Data are given
 4 as mean values \pm standard deviation (n=3). ### $p < .001$ compared to the control cells. *** $p < .001$ compared to the H₂O₂ treated cells.



5

6 **Figure 2.** (A) Reactive oxygen species (ROS) generation, (B) Thiobarbituric acid-reactive substance (TBARS) concentration (μmol malondialdehyde;
 7 MDA), and (C) Superoxide dismutase (SOD) activity in the SHR brains. Data are presented as mean \pm standard deviation (n=3). ^{a-b} Different letters
 8 indicate statistically significant differences (p < 0.05) in the different groups.