Neuronal loss in TAPP hippocampus was significantly reduced in the hippocampus of 7-8 months old TAPP mice and was partially prevented by 12 weeks of treatment with NSI-189. The neuronal nuclear protein NeuN (recognition index): Short-term memory capacity of 7-8 month old TAPP mice in the novel object recognition test. Neuronal loss in TAPP hippocampus was partially prevented by 12 weeks of treatment with NSI-189. Learning abilities were significantly ameliorated by 12 weeks of oral administration of NSI-189. The learning ability of TAPP mice receiving daily NSI-189 treatment were significantly improved. Neuronal loss in TAPP hippocampus was partially prevented by 12 weeks of treatment with NSI-189.