**Supplementary Fig. 1.**

**Effect of peptide ingestion on the ratio of Tyr to large neutral amino acids (LNAA) in the serum and cerebral cortex.**

The ratios of Tyr to large neutral amino acids (LNAA: Phe, Tyr, Ile, Leu and Val) in the serum (A) and cerebral cortex (B) were determined. Values are means ± SEM (n = 8). Abbreviations: vehicle controls, Veh; soy peptide-treated mice, SOY; collagen peptide-treated mice, COL. Differences between groups were analyzed by a one-way ANOVA followed by Tukey–Kramer’s test for post hoc analysis. \*p < 0.05, \*\*p < 0.01, and \*\*\*p < 0.001 (vs Veh); ###p < 0.001 (vs COL)