

**Supplemental Table S2.** Profile of Fasting Serum Non-Essential Fatty Acids in Mice Fed with 12-Week Normal Diet and HSD

FFAs, $\mu\text{g/mL}$	Normal mice	HSD mice
C14:0, MA (myristic acid)	3.96 $\pm$ 0.43	4.63 $\pm$ 0.13 <sup>a</sup>
C16:0, PA (palmitic acid)	233.51 $\pm$ 31.61	304.14 $\pm$ 5.91 <sup>a</sup>
C16: 1, PLA (palmitoleic acid)	22.20 $\pm$ 0.19	20.11 $\pm$ 1.54 <sup>a</sup>
C18: 0, SA (stearic acid)	91.08 $\pm$ 5.16	178.81 $\pm$ 17.82 <sup>b</sup>
C18: 1, OA (oleic acid)	145.59 $\pm$ 8.58	164.01 $\pm$ 7.89 <sup>a</sup>
C18: 2, LA (linoleic acid)	0.81 $\pm$ 0.10	4.33 $\pm$ 0.70 <sup>b</sup>
$\gamma$ -C18:3, $\gamma$ -LNA ( $\gamma$ -linolenic acid)	8.92 $\pm$ 1.03	9.71 $\pm$ 0.12 <sup>a</sup>
C18: 3, LNA (linoleic acid)	90.79 $\pm$ 15.15	49.18 $\pm$ 14.02 <sup>a</sup>
C20: 2, EDA (eicosadienoic acid)	0.16 $\pm$ 0.10	0.42 $\pm$ 0.17
C20: 4, AA (arachidonic acid)	211.59 $\pm$ 21.58	329.05 $\pm$ 20.54 <sup>b</sup>
C20: 5, EPA (eicosapentaenoic acid)	207.81 $\pm$ 2.12	200.03 $\pm$ 12.86
C22: 5, DPA (docosapentaenoic acid)	2.08 $\pm$ 0.38	2.24 $\pm$ 0.39
C22: 6, DHA (docosahexaenoic acid)	476.03 $\pm$ 5.08	551.52 $\pm$ 29.28
Saturated fatty acids	328.59 $\pm$ 5.65	545.04 $\pm$ 23.73 <sup>b</sup>
Total fatty acids	1,533.14 $\pm$ 11.60	2,143.07 $\pm$ 3.23 <sup>a</sup>
Percentage of SA, %	5.53 $\pm$ 1.14	8.25 $\pm$ 0.63 <sup>a</sup>
Percentage of PA, %	15.39 $\pm$ 1.330	17.86 $\pm$ 0.51 <sup>a</sup>
PA/SA ratio	2.71:1	2.16:1 <sup>a</sup>

Values are expressed as mean  $\pm$  standard deviation. For each group  $n=4$  mice.

HSD, high-stearic-acid diet.

<sup>a</sup> $P<0.05$ ; <sup>b</sup> $P<0.001$  vs. the normal mice.