Online supplemental materials

Supplemental Figure Legends

Supplemental Figure 1: ECSHIP2$^{\Delta/+}$ mice do not exhibit a pro-inflammatory state. A) Truncated SHIP2 mRNA was detectable in CD11b^{+} myeloid cells from ECSHIP2$^{\Delta/+}$, although >3000-fold lower level than in lung EC (n=4,4,2). **B)** Blood leukocyte populations were comparable in ECSHIP2$^{\Delta/+}$ and control littermates (n≥8). **C)** Peripheral blood mononuclear cell SHIP2 activity was not altered in ECSHIP2$^{\Delta/+}$ (n=6,7). **D,E)** Serum TNFα and IL-6 were comparable in ECSHIP2$^{\Delta/+}$ and control littermates (n=8,14). **F)** ECSHIP2$^{\Delta/+}$ had similar TNFα, IL-6, and IL-1β mRNA expression in white adipose tissue and skeletal muscle (n≥4). **G)** White adipose tissue collagen staining with Sirius Red, a feature of chronic inflammation, was similar in ECSHIP2$^{\Delta/+}$ and control littermates (n=6,11).

Supplemental Figure 2: Juvenile ECSHIP2$^{\Delta/+}$ mice have normal EC expression of key signaling nodes and vascularization of metabolic tissues. A) The increased expression of Akt, Rictor and eNOS seen in 10-month old ECSHIP2$^{\Delta/+}$ mice was not apparent in 6-week old mice (n≥5). **B,C)** 6-week old ECSHIP2$^{\Delta/+}$ mice exhibited normal capillary density in white adipose tissue and skeletal muscle (n=5,4).

Supplemental Figure 3: Insulin receptor and insulin receptor substrate 1/2 signaling is unchanged in ECSHIP2$^{\Delta/+}$ mice. A) Basal expression and phosphorylation of the insulin receptor and insulin receptor substrate 1/2 were comparable in ECSHIP2$^{\Delta/+}$ mice and littermate controls (n≥5). **B)** Insulin-stimulated phosphorylation of the insulin receptor and insulin receptor substrate 1/2 were comparable in ECSHIP2$^{\Delta/+}$ mice and littermate controls (n≥5).