

Supplementary data figure legends

Supplementary Fig. 1. Hepatic *Cnr2* expression levels, Con A-treated and untreated conditions. Gene expression using RNA extracted from livers of hCNR1^{+/+} and hCNR1^{-/-} mice, untreated (n=4, Fig. S1A) and Con A-treated (5 mg/kg, n=3-4, Fig. S1B).

Supplementary Fig. 2. (A) Hepatocytes were isolated from hCNR1^{+/+} and hCNR1^{-/-} mice (n=2). After overnight incubation hepatocytes were subjected to treatment of various concentrations of Con A dissolved in PBS. Cell viability was measured using MTT (0.5 mg/ml) assay for 4 hours incubation at 37°C. (B-C) Plasma alanine aminotransferase (ALT) levels in Con A-administrated hCNR1^{+/+} and hCNR1^{-/-} mice in time-course with 5 mg/kg (n=4-5) and dose-response (n=3-5) curve at 24 hours post injection. Results were expressed as mean ±S.E.M. (* p≤0.05, **p≤0.01, ***p ≤0.0001 and # p≤0.05, ##p≤0.01, #####p ≤0.0001)

Supplementary Fig. 3. hCNR1^{+/+} and hCNR1^{-/-} mice were injected Con A (5.0 mg/kg) for 12 hours (n=4). Protein extracts from liver homogenates were immunoblotted against anti-phospho-extracellular signal-regulated kinase 1/2 (ERK 1/2) and total ERK 1/2 and detected by autoradiographic signals.