Supplemental Data

Acute Hepatic Insulin Resistance Contributes to Hyperglycemia in Rats Following Myocardial Infarction

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Supplementary Figure S1. Changes in plasma levels of lipids in rats after MI. (A) Plasma cholesterol levels at the indicated time points. (B) Plasma triglyceride levels at the indicated time points. (C) Plasma Free fatty acid (FFA) levels at the indicated time points. Values presented are means±SEM of 8 to 10 samples in each group. * P<0.05 vs control group 30 min after surgery. # P<0.05 vs MI group before ligation.

Supplementary Figure S2. Alteration of Akt phosphorylation (ser473) in response to different doses of insulin in heart tissue. Rats were administered with insulin at 0.5U/Kg, 1U/Kg, 10U/Kg and 20U/Kg 5 min before sacrifice. Heart tissue lysates were subjected to western blot using specific anti-phospho-Akt (ser 473) and anti-Akt.

Supplementary Figure S3. Alteration of hepatic gluconeogenesis after MI. Relative mRNA levels of PEPCK, G6Pase and PGC1α were measured by RT-PCR. Values presented are means±SEM of 8 to 10 samples in each group. * P<0.05 vs control group.

Supplementary Figure S4. The effect of ROSI on hepatic gluconeogenesis after MI. Rats were administered with ROSI (4mg/kg) before sacrifice. Relative mRNA levels of PEPCK and G6Pase were measured by RT-PCR. Values presented are means±SEM of 8 to 10 samples in each group. * P<0.05 vs control group. # P<0.05 vs MI group.