Figure S1. Electropherograms of miRNA-497 extracted from blank rat liver sample (a), the blank liver with miRNA-497 at concentration of 5 nM (b) and the liver sample collected at 15 min after iv administration of miRNA-497 mimic (1mg/kg). Peak 1: Internal standard; peak 2: DNA probe; peak 3: miRNA-497. The ssDNA probes and extracted miRNAs were hybridized in hybridization buffer at 40 °C for 20 min after incubation at 95 °C for 5 min. Uncoated capillary, 75 μm id × 40 cm; separation voltage, 14 kV; injection, 15 s at 0.5 psi; run buffer: 100 mM Tris-borate buffer (pH 10) containing 2.5 M urea. The fluorescein (1 nM) was used as internal standard.
Figure S2. Electropherograms of miRNA-497 extracted from blank rat kidney sample (a), the blank kidney spiked with miRNA-497 at concentration of 5 nM (b) and the kidney sample collected at 15 min after iv administration of miRNA-497 mimic (1mg/kg) (c). Peak 1: Internal standard; peak 2: DNA probe; peak 3: miRNA-497. The ssDNA probes and extracted miRNAs were hybridized in hybridization buffer at 40 °C for 20 min after incubation at 95 °C for 5 min. Uncoated capillary, 75 μm id × 40 cm; separation voltage, 14 kV; injection, 15 s at 0.5 psi; run buffer: 100 mM Tris-borate buffer (pH 10) containing 2.5 M urea. The fluorescein (1 nM) was used as internal standard.
Figure S3. Electropherograms of miRNA-497 extracted from blank rat spleen sample (a), the blank spleen spiked with miRNA-497 at concentration of 5 nM (b) and the spleen sample collected at 15 min after iv administration of miRNA-497 mimic (1mg/kg) (c). Peak 1: Internal standard; peak 2: DNA probe; peak 3: miRNA-497. The ssDNA probes and extracted miRNAs were hybridized in hybridization buffer at 40 °C for 20 min after incubation at 95 °C for 5 min. Uncoated capillary, 75 μm id × 40 cm; separation voltage, 14 kV; injection, 15 s at 0.5 psi; run buffer: 100 mM Tris-borate buffer (pH 10) containing 2.5 M urea. The fluorescein (1 nM) was used as internal standard.
Figure S4. Linear correlation of relative peak area versus different concentrations of miRNA-497 in liver. Relative peak area ratio of the miRNA-497 and the internal standard (fluorescence) was plotted against concentration.
Figure S5. Linear correlation of relative peak area versus different concentrations of miRNA-497 in lung. Relative peak area ratio of the miRNA-497 and the internal standard (fluorescence) was plotted against concentration.
Figure S6. Linear correlation of relative peak area versus different concentrations of miRNA-497 in kidney. Relative peak area ratio of the miRNA-497 and the internal standard (fluorescence) was plotted against concentration.
Figure S7. Linear correlation of relative peak area versus different concentrations of miRNA-497 in spleen. Relative peak area ratio of the miRNA-497 and the internal standard (fluorescence) was plotted against concentration.
Figure S8. Change in miRNA-497 liver levels from 0.25 to 24 h, shown as mean ± (n=3 rats/liver/time point).
Figure S9. Change in miRNA-497 lung levels from 0.25 to 24 h, shown as mean ± (n=3 rats/lung/time point).
Figure S10. Change in miRNA-497 kidney levels from 0.25 to 24 h, shown as mean ± (n=3 rats/kidney/time point).
Figure S11. Change in miRNA-497 spleen levels from 0.25 to 24 h, shown as mean ± (n=3 rats/spleen/time point).