**Supplementary Data**

**Endogenous sialic acid-modified therapeutic nanoparticles for ameliorating ischemia reperfusion-induced renal injury**

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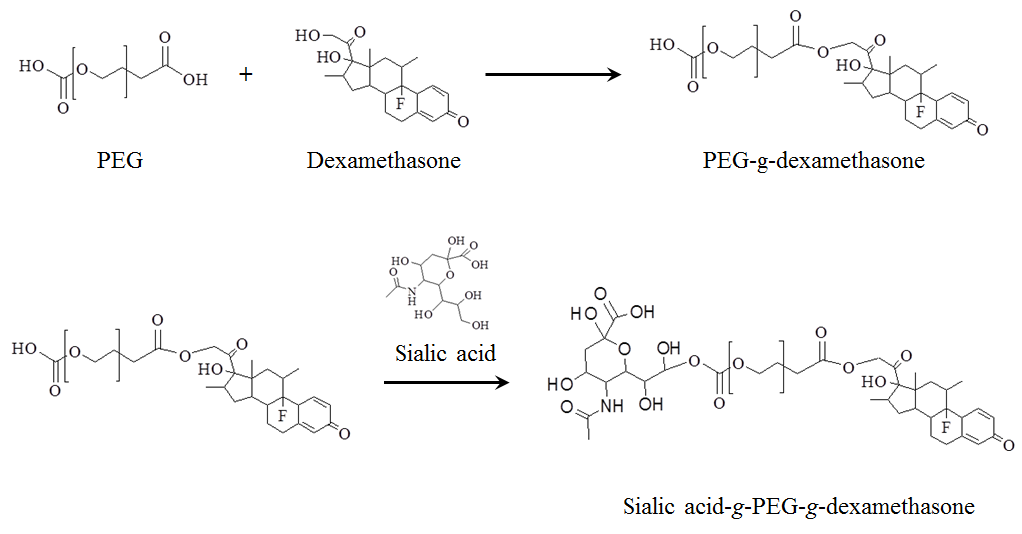
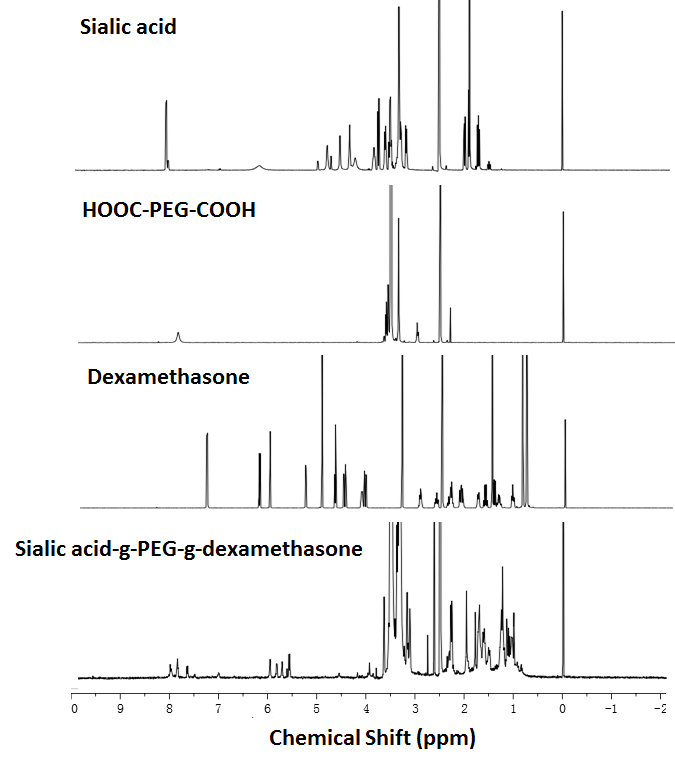
Figure S1. The synthesis route of sialic acid-g-PEG-g-dexamethasone.

Figure S2. The proton spectrum of sialic acid-*g*-PEG-*g*-dexamethasone.

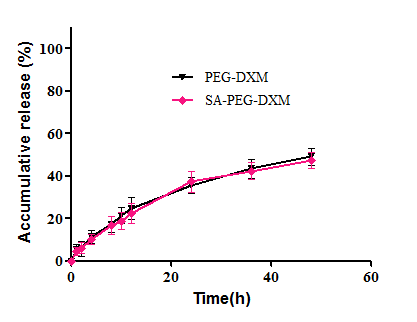


Figure S3. The *in vitro* release behavior of conjugated DXM from SA-PEG-DXM at 37 °C in pH 7.4 PBS. Data were presented as mean ± SD (*n* = 3).

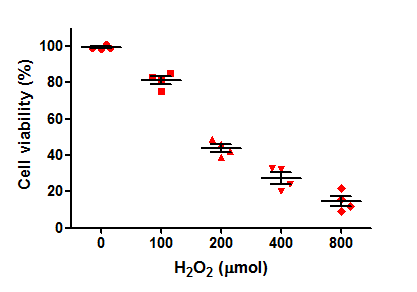


Figure S4. Cell survival of HUVECs were incubated with a range of concentrations of H2O2 (100, 200, 400 and 800 µmol/L) for 4 h and the results showed cell viability reduced with the enhanced concentration of H2O2. Data were presented as mean ± SD (*n* = 4).

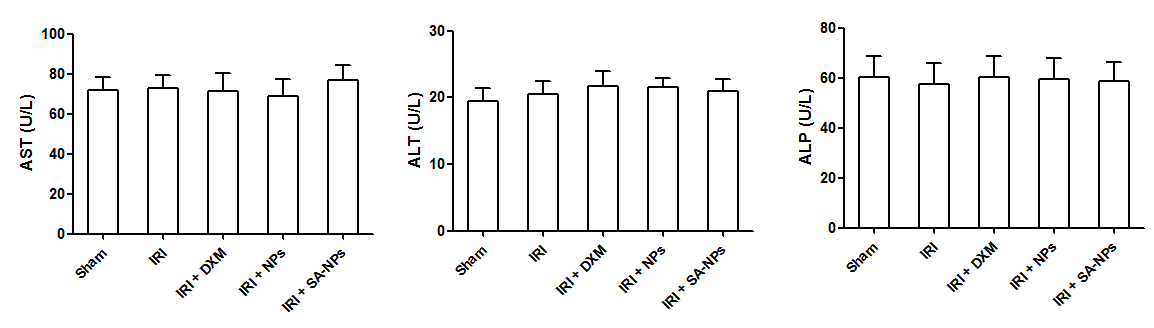
Figure S5. The changes in liver function index after SA-NPs therapy. Data were presented as mean ± SD (*n* = 3).



Figure S6. Representative images of liver sections stained by H&E. The scale bar = 100 μm.