Supplementary Figure Captions

Figure S1. Quantitative analysis of ultrasound imaging of Fig. 3B. Data are mean ±s.d. (n=4). ***p<0.001, relative to contusion only.

Figure S2. Quantitative analysis of ultrasound imaging of Fig. 3C. Data are mean ±s.d. (n=4). *p<0.05, ***p<0.001, relative to contusion only.

Figure S3. Quantitative analysis of ultrasound imaging of Fig. 4B. Data are mean ±s.d. (n=4). ***p<0.001, relative to contusion only.

Figure S4. Cytotoxicity of PVAX nanoparticles against RAW264.7 cells. Data are mean ±s.d. (n=4).

Figure S5. H&E staining of organs of mice treated with PVAX nanoparticles.

![Normalized intensity graph](image)
Figure S2.
Figure S3.

Normalized intensity (a.u.)

Control  PVAX  PLGA  SonoVue

Contusion injury

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Figure S4.
Figure S5.