**Supplementary Data**

**pH- and acoustic-responsive platforms based on perfluoropentane loaded protein nanoparticles for ovarian tumor targeted ultrasound imaging and therapy**

Jianping Li1†, Hong Ji1†, Yong Jing2, Shiguang Wang2\*

1 Department of Geriatric Medicine, Sichuan Academy of Medical Sciences & Sichuan Provincial People’s Hospital, Chengdu, Sichuan 610041, China

2 Department of Imaging, Eastern Hospital of Sichuan Academy of Medical Sciences & Sichuan Provincial People’s Hospital, Chengdu, Sichuan 610000, China

\*Corresponding author: Shiguang Wang

Email: wangsg\_im@hotmail.com

Telephone: + 86-13684006886

Address: No. 585 Honghe North Road, Longquanyi District, Chengdu, Sichuan 610000, China

† These authors contribute equally to this work.



Figure S1. The FT-IR spectrum of FA-FRT.



Figure S2. The statistical data of FITC fluorescence signal inside HUM-CELL-0088 cells treated with free FITC and FITC labeled FRT-PFP, FA-FRT-PFP + FA and FA-FRT-PFP.



Figure S3. Cell viabilities of HUM-CELL-0088 cells treated with 40 μg/ml of PBS (control), FRT-PFP, FA-FRT-PFP + FA and FA-FRT-PFP combined with or without LIFU irradiation (2.0 W/cm2, 4 min) and further 21 h incubation.

****

Figure S4. The TNF protein expression level of cells treated with 40 μg/mL of PBS (control), FRT-PFP, FA-FRT-PFP + FA and FA-FRT-PFP combined with or without LIFU irradiation (2.0 W/cm2, 4 min) and further 21 h incubation.