Supplementary Information

VEGF-loaded Graphene Oxide as Theranostics for Multi-Modality Imaging-Monitored Targeting Therapeutic Angiogenesis of Ischemic Muscle

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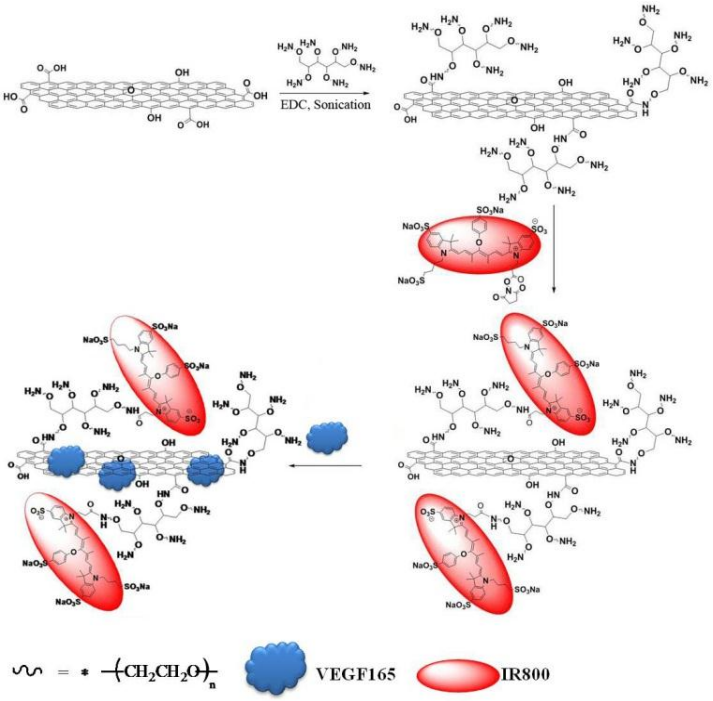

Figure S1. The synthetic route of VEGF-loaded IR800-conjugated graphene oxide (GO-IR800-VEGF).

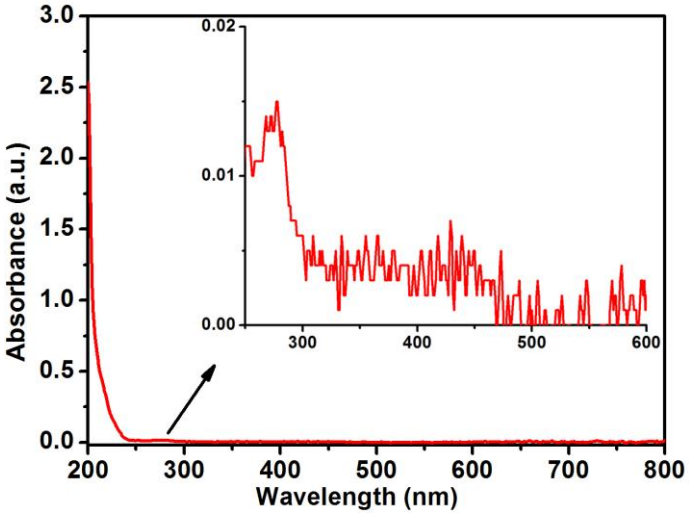

Figure S2. UV-vis absorbance spectrum of $VEGF_{165}$.

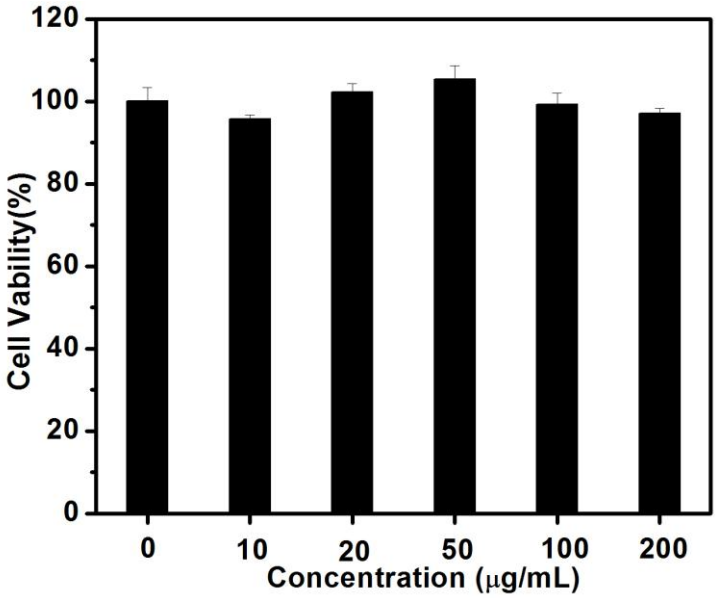

Figure S3. Cellular toxicity of GO-IR800-VEGF on MDA-MB-435 cells incubated with 0~200 μg/mL GO-IR800-VEGF for 24 h at 37 °C in the dark.

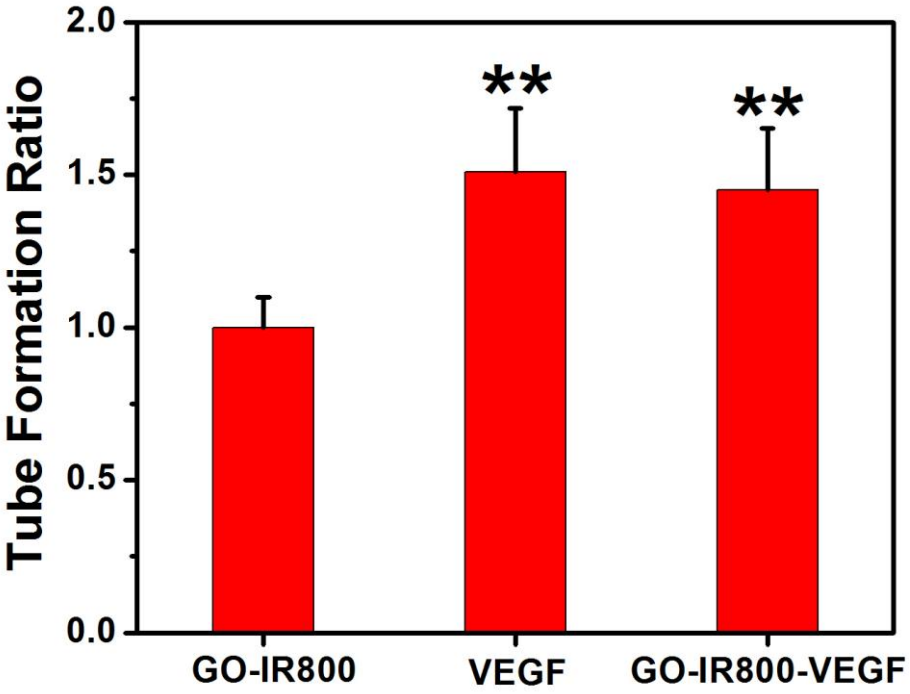

Figure S4. Total capillary tube length measurement. Tube formation ratio was the total capillary tube length of VEGF or VEGF-IR800-VEGF treated HUVEC cultured well divided by that of GO-IR800 treated well (n = 4/group). **, P < 0.01.

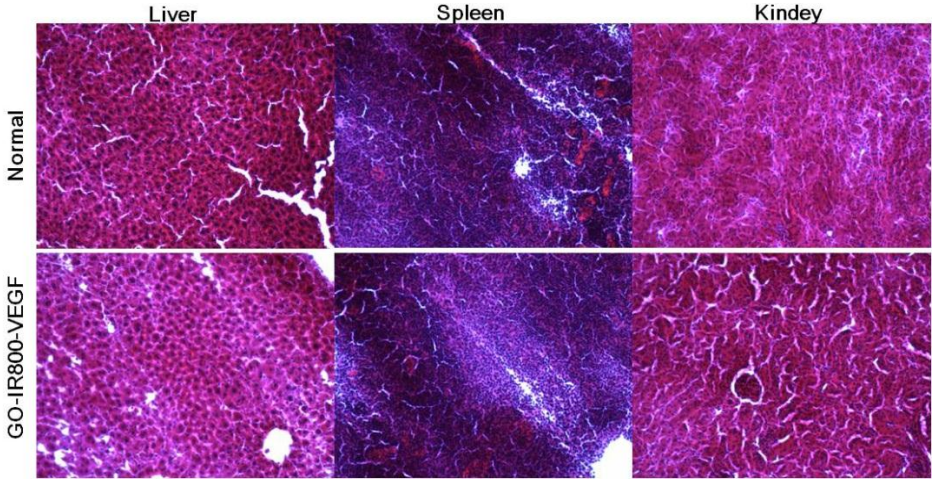

Figure S5. H&E stained images of major organs, harvested at 24 h time point from mice injected with/without GO-IR800-VEGF.

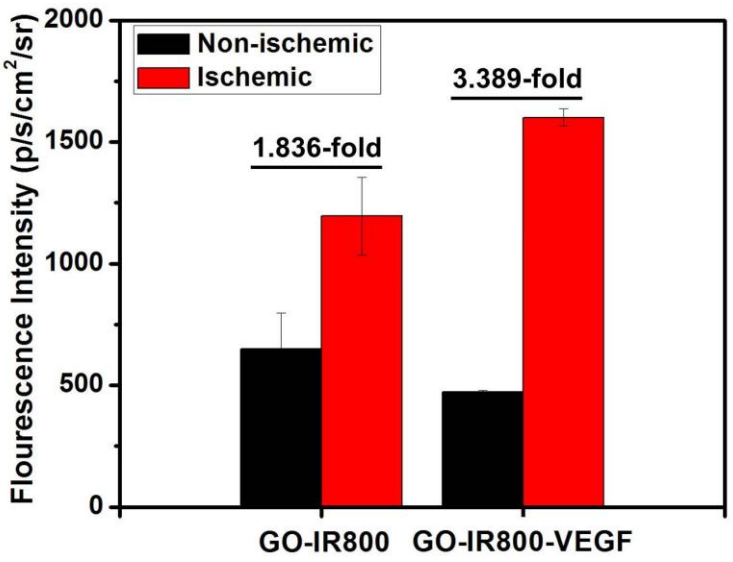

Figure S6. The fluorescence intensity of ischemic (left limb) and non-ischemic (right limb) tissues harvested at 24 h time point from post-injection mice (n = 3/group).