Near-Infrared Light-Responsive Hybrid Hydrogels for Synergistic Chemo-Photothermal Therapy of Oral Cancer

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Fig. S1 Dynamic viscosity measurements of Gel and Gel/MSNs.
Fig. S2 Characterizations of MSNs and MSNs-DOX. (a) Zeta potential of MSNs and MSNs-DOX dispersed in DI water. (b) The pictures of MSNs and MSNs-DOX dispersed in DI water.
Fig. S3 Morphology characterizations of resulting hydrogels. (a) SEM images of blank gel. (b) The porosities of Gel and Gel/MSNs.
Fig. S4 SEM-mapping and EDS analysis of the MC/MSNs hydrogel. (a) The SEM images of Gel/MSNs. (b) Element mapping and weight measurement of the hydrogel.
Fig. S5 Decay curves of the absorption of DPBF by singlet oxygen generated from Gel/IR820 under 1.0 W·cm⁻² irradiation at 808 nm.
Fig. S6 *In vitro* degradation of Gel/MSNs in different mediums.
Fig. S7 Temperature profiles of IR820-loaded hydrogel (200 µg/mL) subjected to three cycles of NIR irradiation (2.0 W·cm⁻²).
Fig. S8 Fluorescence images of ROS generation in Cal27 cells with incubation of IR820-containing Gel before and after irradiation; scale bar 100 µm.
Fig. S9 Assessment of the apoptosis of Cal27 cells under indicated treatments by TUNEL assay.
**Fig. S10** *In vivo* photo-chemo therapy. (a) Photos of the injectable formulations. Photos of tumor-bearing mice after NIR irradiation at (b) 2 h and (c) day 3 in G7.