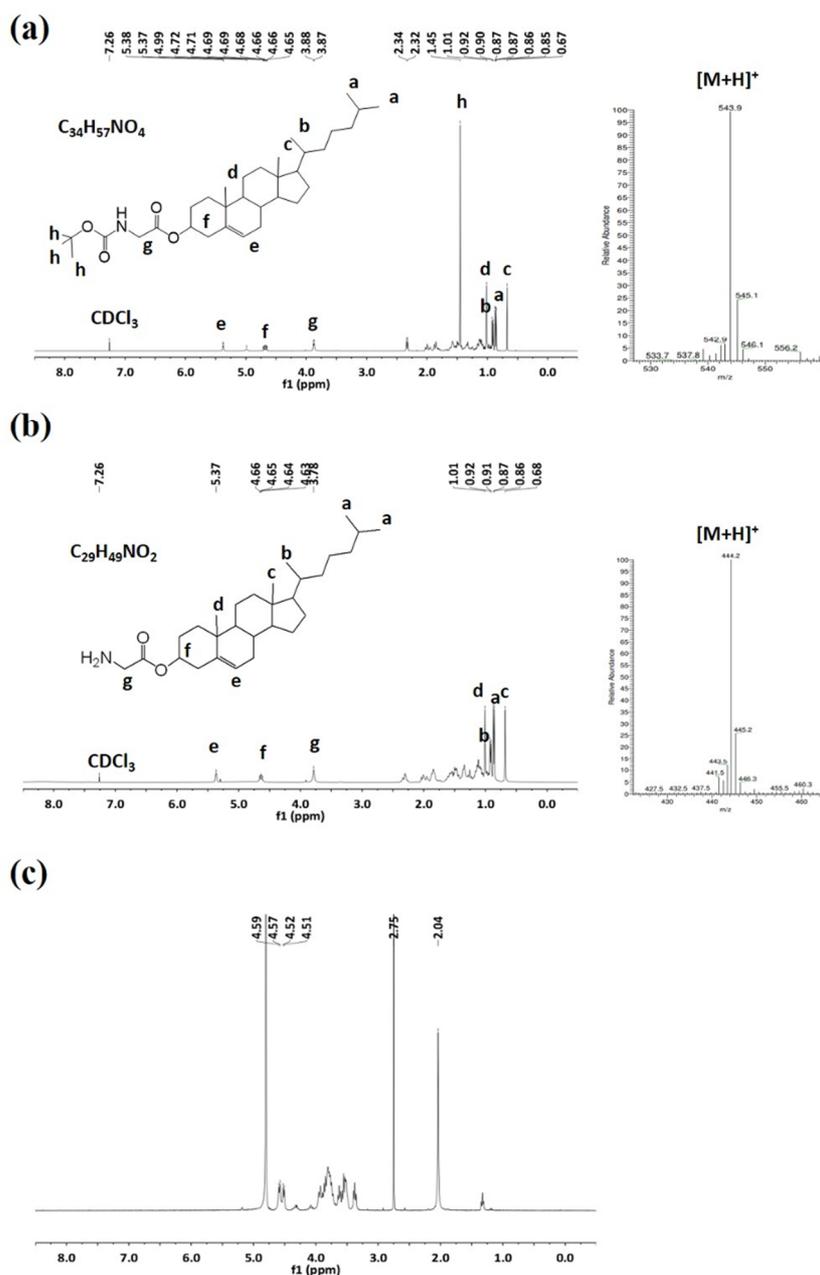
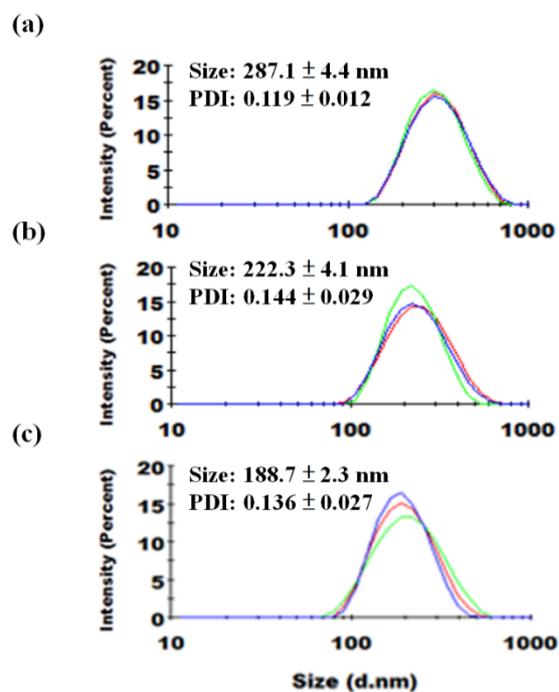


# Supplementary Materials: Hyaluronic Acid-Glycine-Cholesterol Conjugate-Based Nanoemulsion as a Potent Vaccine Adjuvant for T Cell-Mediated Immunity

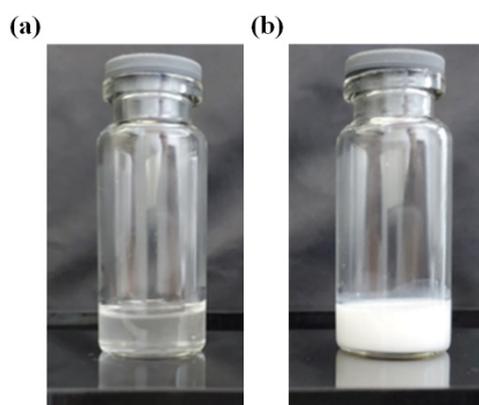
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**Figure S1.** Structural identification: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz) and mass spectrums (ESI-MS) of (a) Boc-Gly-cholesterol (b) NH<sub>2</sub>-Gly-cholesterol; <sup>1</sup>H NMR spectrum (D<sub>2</sub>O/d<sub>6</sub>-DMSO, 400 MHz) of (c) HACH20.



**Figure S2.** Size distribution of SQ@HACH with different passages: (a) 1 passage, (b) 2 passages, and (c) 3 passages through a microfluidizer. The size of SQ@HACH was measured under 100-fold dilution in water by DLS. ( $n = 3$ , mean  $\pm$  SD).



**Figure S3.** Appearance of (a) SQ@HA and (b) SQ@HACH. 5% squalene was added to the solution containing 1% HA and 1% HACH, homogenized and stood for 1 h.