



SUPPLEMENTARY FIG. S2. Characterization of KKK-L5 and sulfo-Cy5-KKK-L5. **(A)** Chemical structure of KKK-L5 (sequence: KKKRLNVGGTYFLTRQ). Chemical formula: $C_{90}H_{152}N_{28}O_{24}$, Molecular weight: 2010.38 g/mol. **(B)** Mass Spec of KKK-L5, multiple ions were detected; of these, two ions and their corresponding peaks were $[KKK-L5]_2^+$ (m/z 1005.9) and $[KKK-L5]^+$ (m/z 2011.0). **(C)** Analytical HPLC chromatogram of KKK-L5. Retention time (t_R) = 3.24 min using a binary H_2O/ACN mobile phase containing 0.05% TFA. **(D)** Chemical structure of sulfo-Cy5-KKK-L5. Chemical formula: $C_{122}H_{189}N_{30}O_{31}S_2^+$, Molecular weight: 2636.15 g/mol. **(E)** Mass Spec of sulfo-Cy5-KKK-L5, multiple ions were detected with a dominant peak and species of the spectrum being $[sulfo-Cy5-KKK-L5]^+$ (m/z 1318.3). **(F)** Analytical HPLC chromatogram of sulfo-Cy5-KKK-L5. Retention time (t_R) = 3.4 min using a binary H_2O/ACN mobile phase containing 0.05% TFA.