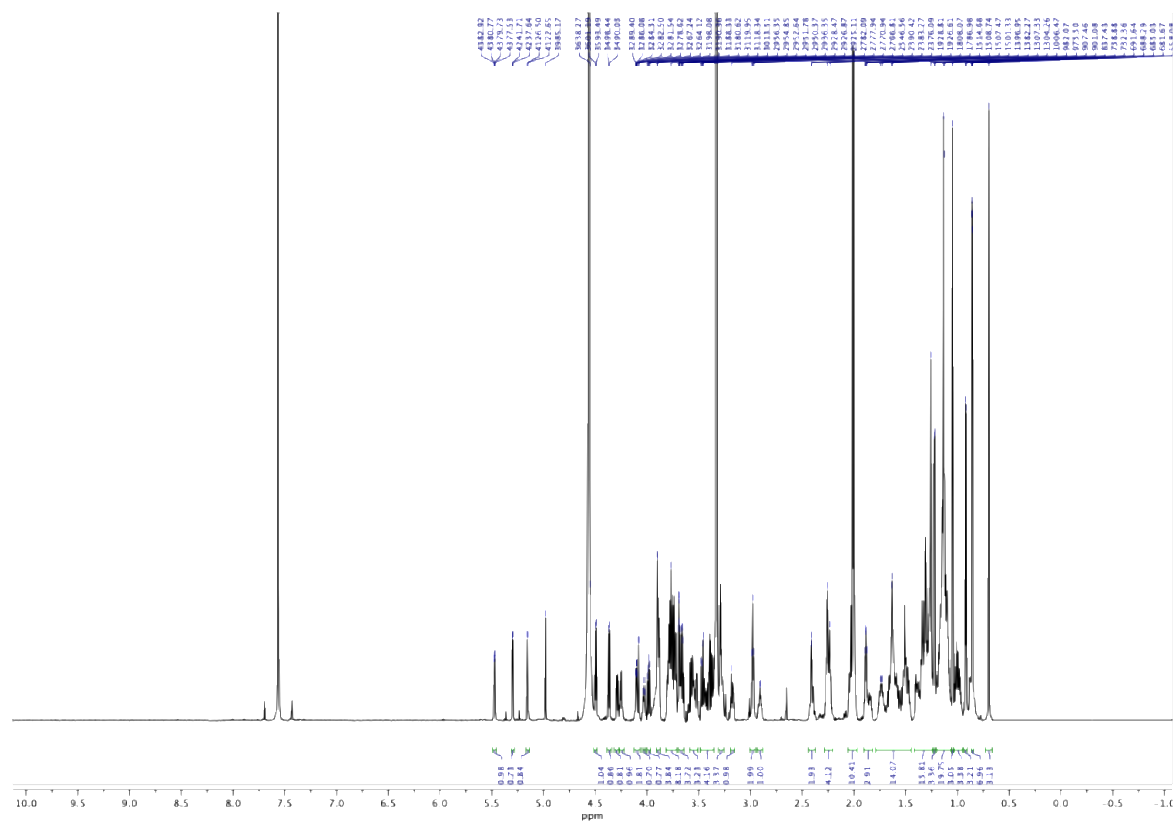


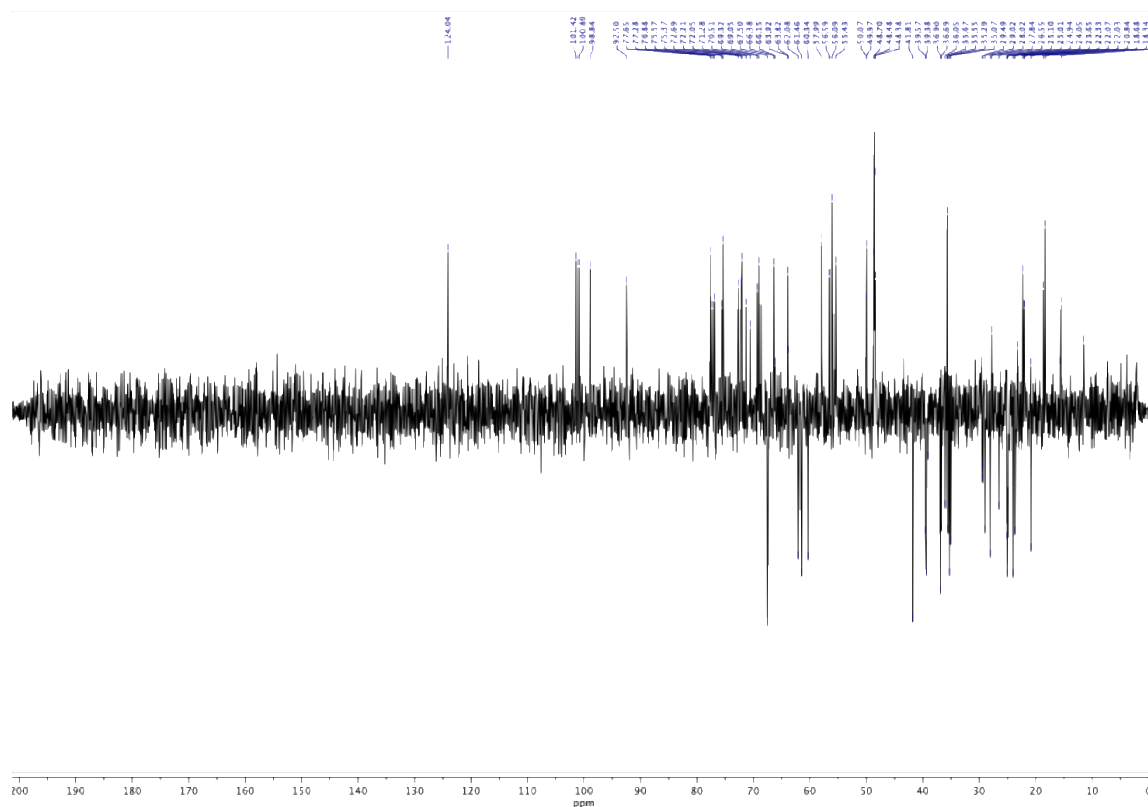
Supplementary Materials

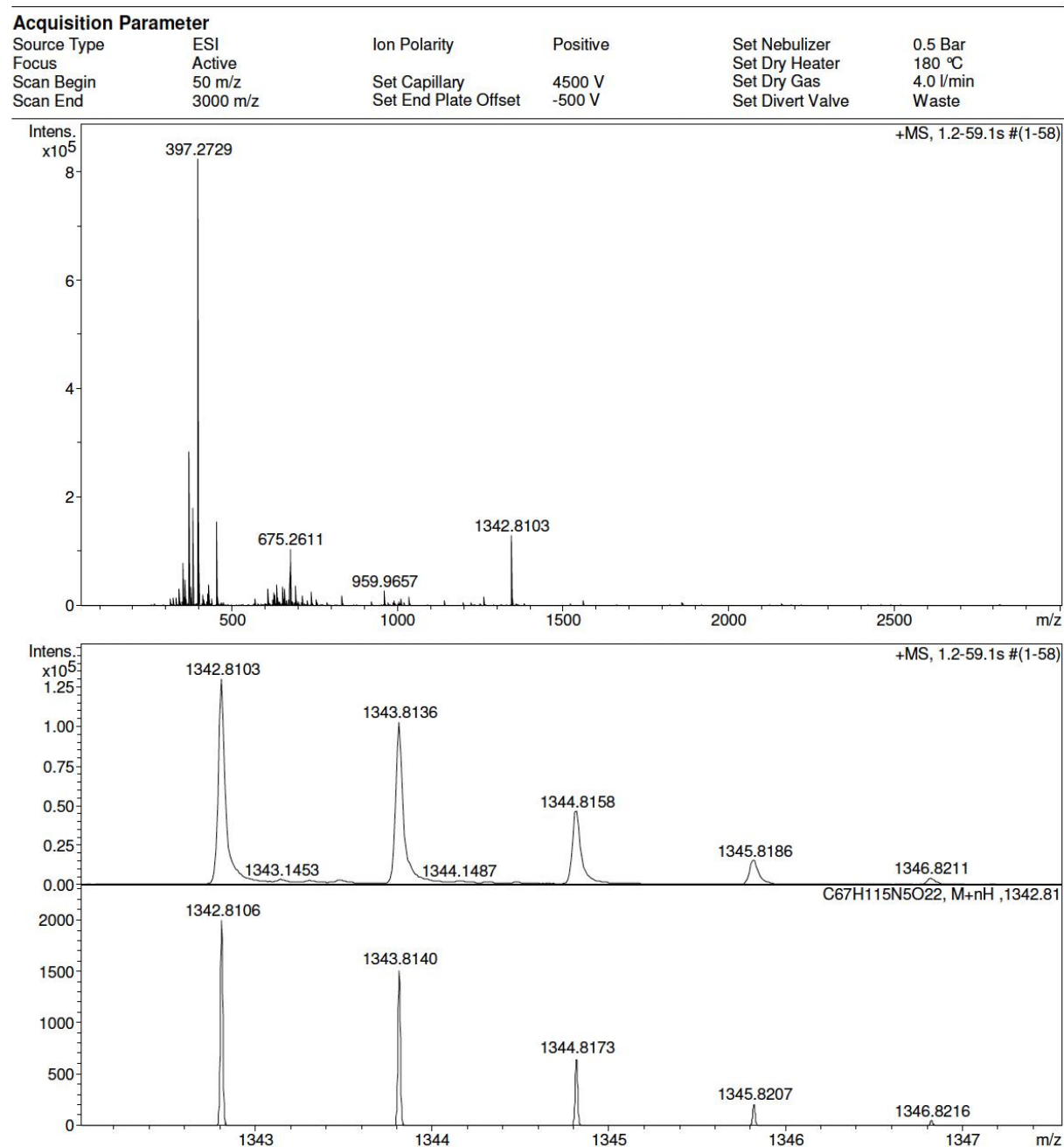
Raft Selectivity of a Cholesterol Probe Capable of Forming an H-Bond with Phospholipids

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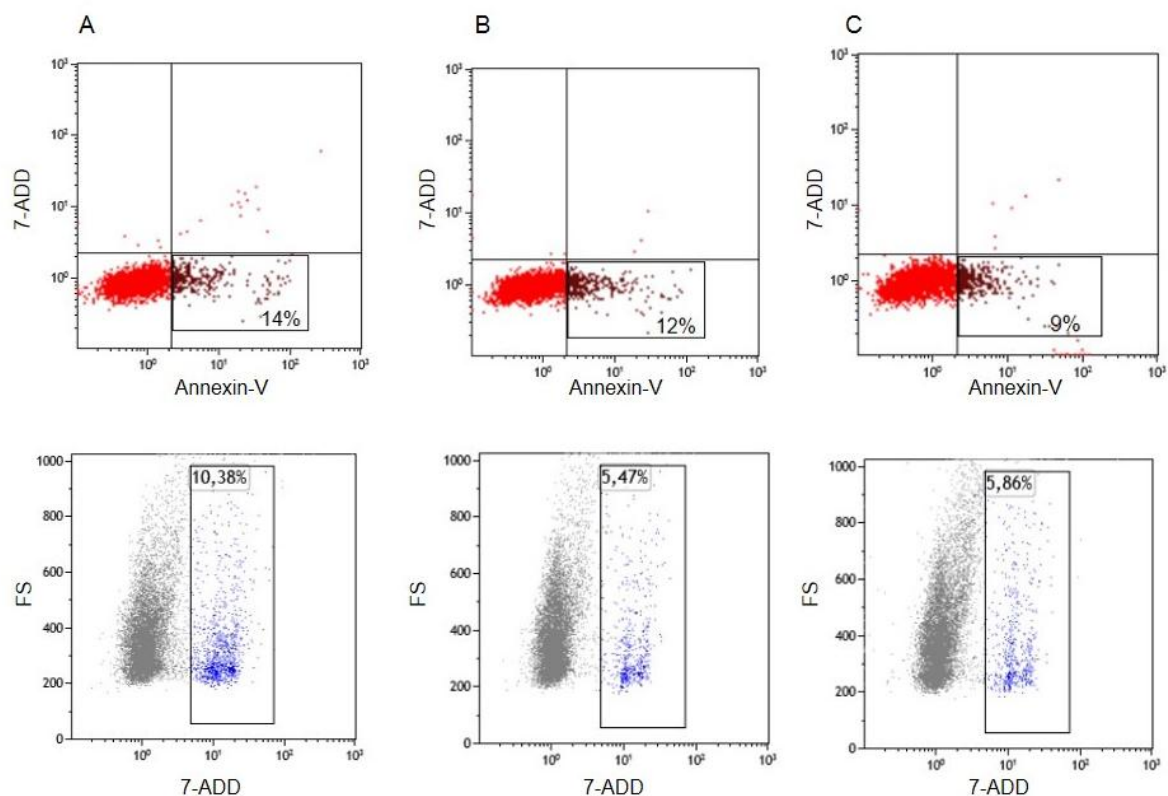


Suppl. Mat. Fig. S1. ^1H NMR spectrum of A2-Ad-NChol (700 MHz, $\text{CD}_3\text{OD}-\text{CDCl}_3$, 1 : 1, 303K).

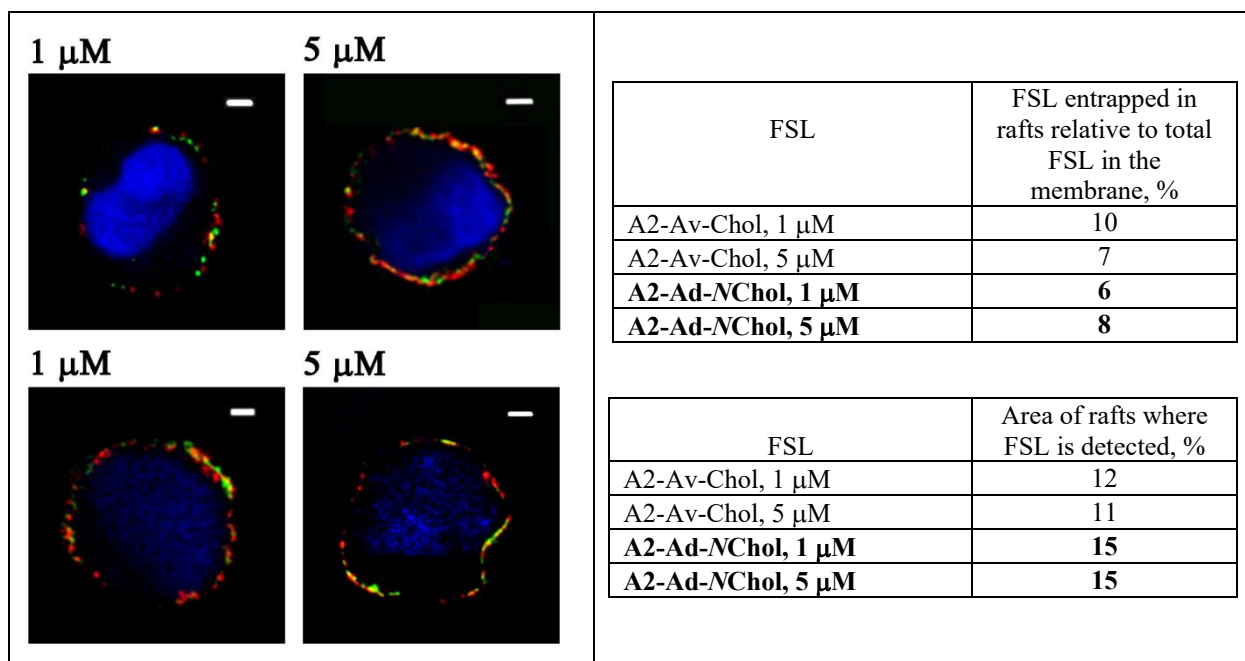




Suppl. Mat. Fig. S3. HRMS (ESI) spectrum of **A2-Ad-NChol**: found m/z 1342.8103 $[M+H]^+$, calculated for C₆₇H₁₁₅N₅O₂₂: 1342.8106.



Suppl. Mat., Fig. S4. EA.hy 926 cells apoptosis (upper panel) and viability (bottom panel) assay before (A) and after insertion of **A2-Ad-NChol**, 1 (B) and 5 μ M (C), flow cytometry. In the dot-plots apoptotic cells were identified by gating logarithm of fluorescence of 7ADD vs Annexin V; necrotic cells – by gating forward scatter (FS) vs FL-7ADD, the number given in the rectangles indicate the percentage of apoptotic (upper panel) and necrotic cells (bottom panel).



Suppl. Mat. Fig. S5. Confocal microscopy of the distribution of **A2-Av-Chol** (upper panel) and **A2-Ad-NChol** (bottom panel) after 5 hours incubation at 37 $^{\circ}$ C in EA.hy 926 cells. Rafts were

visualized by CTB-FITC (green) while FSL constructs were stained with mouse anti-A and anti-mouse IgM+IgG Alexa Fluor (red), nuclei are stained with DAPI (blue). The white bar inset top right in each image correspond to 5 μm .