Supporting Information

α-Hederin Induces Apoptosis, Membrane Permeabilization and Morphologic Changes in Two Cancer Cell Lines Through a Cholesterol-Dependent Mechanism
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Fig. 1S Molecular structures of $\alpha$-hederin and its aglycone hederagenin.
Fig. 2S Trypan blue assay in non-depleted (A) and cholesterol-depleted U937 cells (B) of increasing concentrations of sodium dodecyl sulfate (SDS): Control (●), 100 µM (■), 250 µM (▲) and 500 µM (▼). Statistical analysis: Two-way ANOVA between non-depleted and cholesterol depleted conditions. **P < 0.1, ***p < 0.01.
Fig. 3S Acridine orange/ethidium bromide assay of U937 cells. Early/late apoptosis (A, C) and membrane permeabilization (B, D) for cells incubated with or without general caspases inhibitor Q-VD-OPh. Camptothecine (Campto, white) has been used as a positive control for apoptosis induction. $\alpha$-Hederin ($\alpha$-h, grey) has been used at 20 μM and 40 μM for 24h and 4h of incubation, respectively. Statistical analysis for conditions with or without inhibitor: One way ANOVA. Symbols: ● = early apoptosis, ○ =late apoptosis, * =membrane permeabilization; two symbols: p < 0.01, three symbols: p < 0.001.
Fig. 4S Intensity ratio of Ca²⁺ bound vs. unbound FURA-2 in U937 cells after 5 min of incubation with α-hederin in media containing Ca²⁺ ions (+Ca²⁺) or not. Statistical analysis: One way ANOVA was used to compare intensity ratios to the control. ***P < 0.001.
Fig. 5S GP-data of THP-1 (A, B, C, D) and U937 (E, F, G, H) cells. Panel A, C, E, G, I: GP-values of a GP image have been fitted to a double Gaussian function centered at GPeX (low), black colors and GPeX (high), grey colors. Panel B, D, F, H, J: Average of all GP-values in a GP-image. Statistical analysis, two-way ANOVA compared to control. **P < 0.01, ***p < 0.001.