

# pH-Sensitive Dendrimerosomes of Hybrid Triazine-Carbosilane Dendritic Amphiphiles-Smart Vehicles for Drug Delivery

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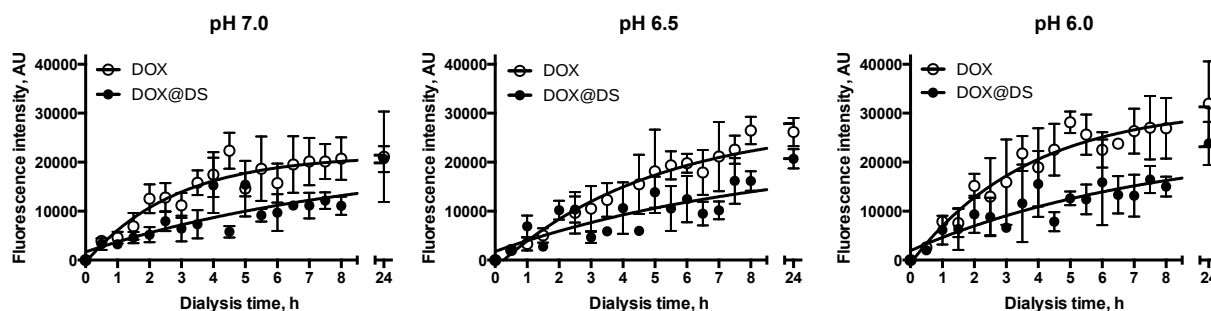
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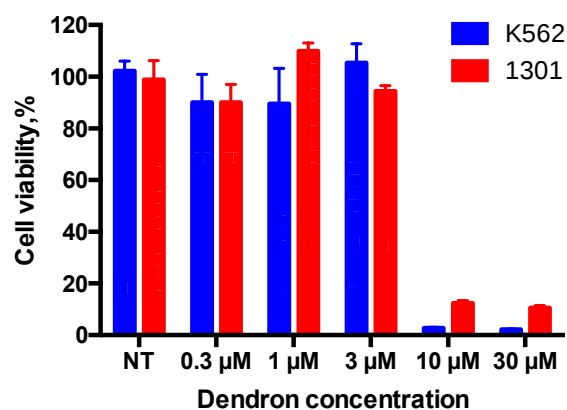
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## DOX release from dendrimerosomes



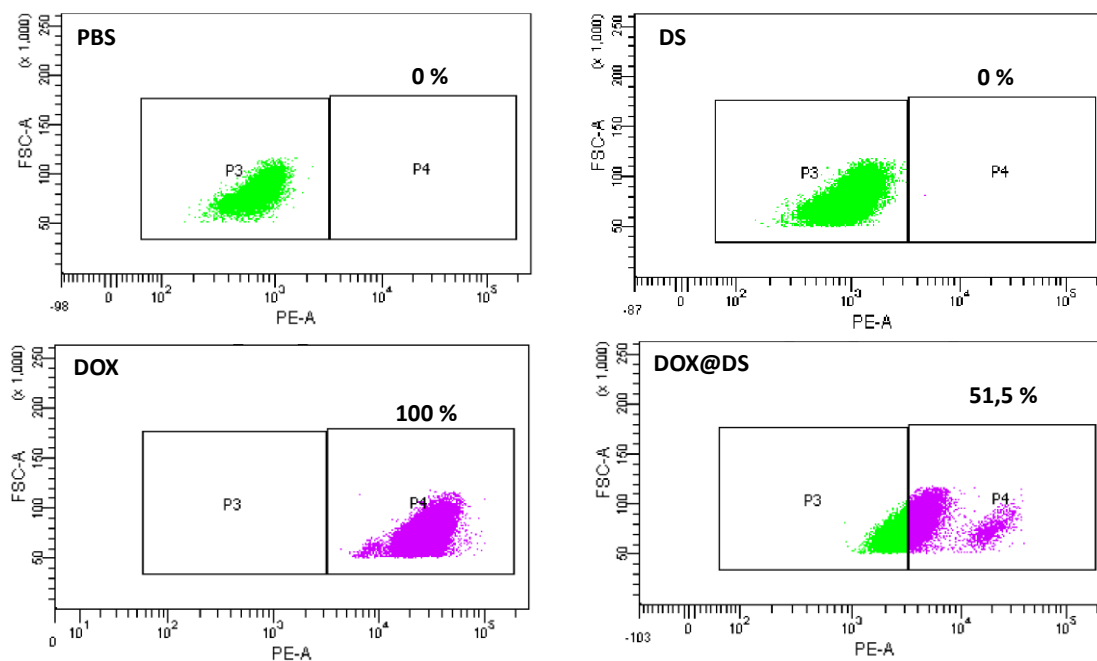
**Figure S1.** Kinetic curves of the fluorescence acquisition in the dialysis buffer upon incubation of free doxorubicin and doxorubicin-loaded dendrimerosomes at different pH. Conditions: see Section 2.9.

## Dendron biocompatibility

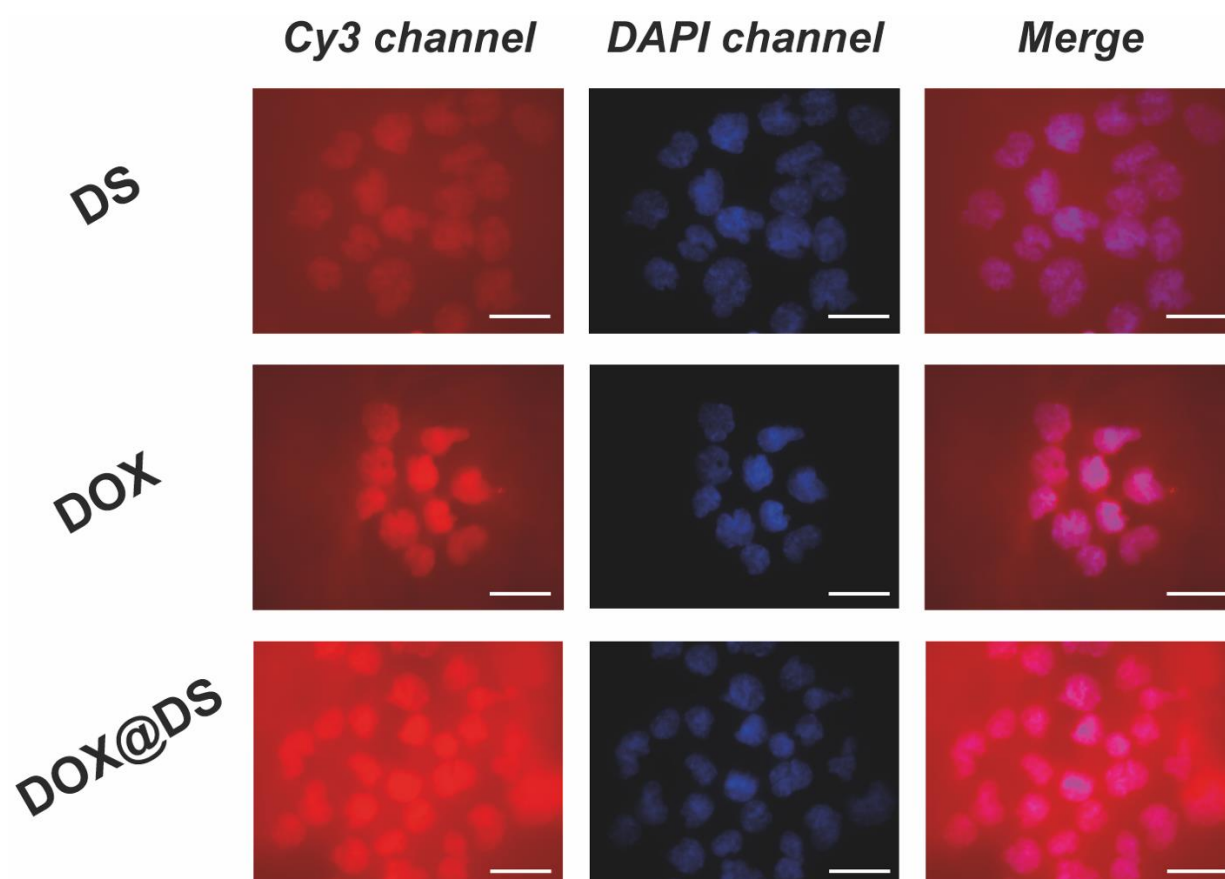


**Figure S2.** Cell viability profiles after incubation with amphiphilic dendron for 72 h. WST-1 assay. NT-non-treated cells. Data are presented as Mean  $\pm$  S.D. (n = 5).

## Drug internalization studies

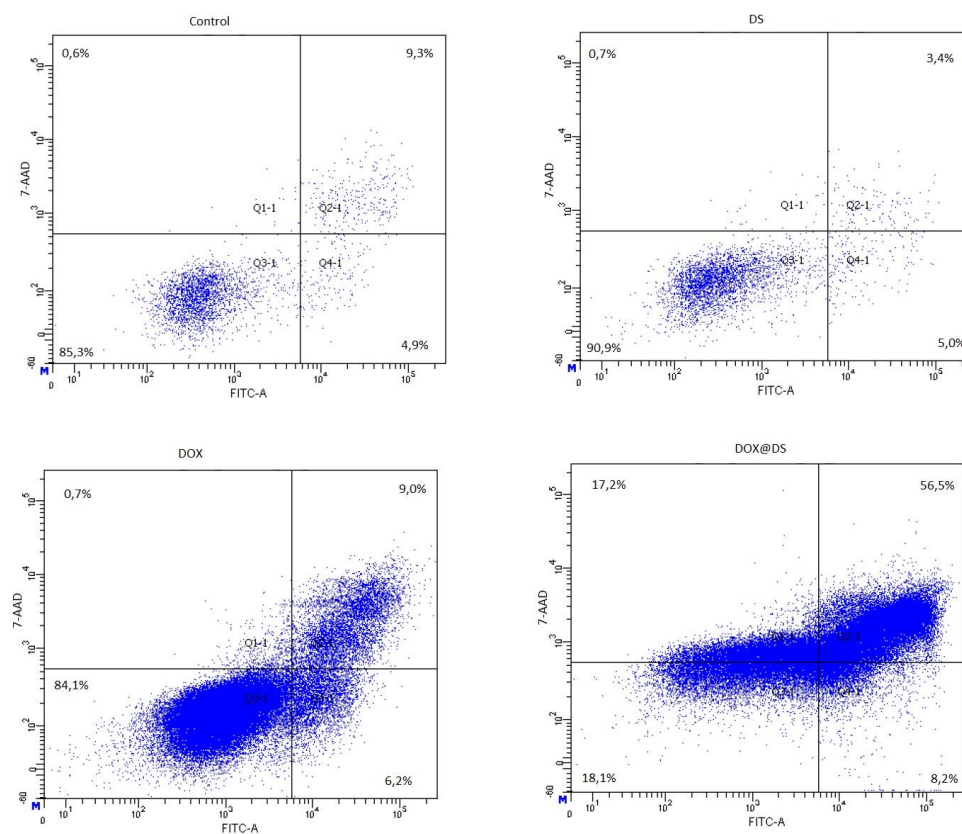


**Figure S3.** Representative plots of fluorescence distribution in 1301 cells incubated with PBS (non-treated control), blanc dendrimersomes (DS), doxorubicin (DOX) and doxorubicin-loaded dendrimersomes (DOX@DS). Percentages of cells having fluorescence higher than in control are indicated on graphs.

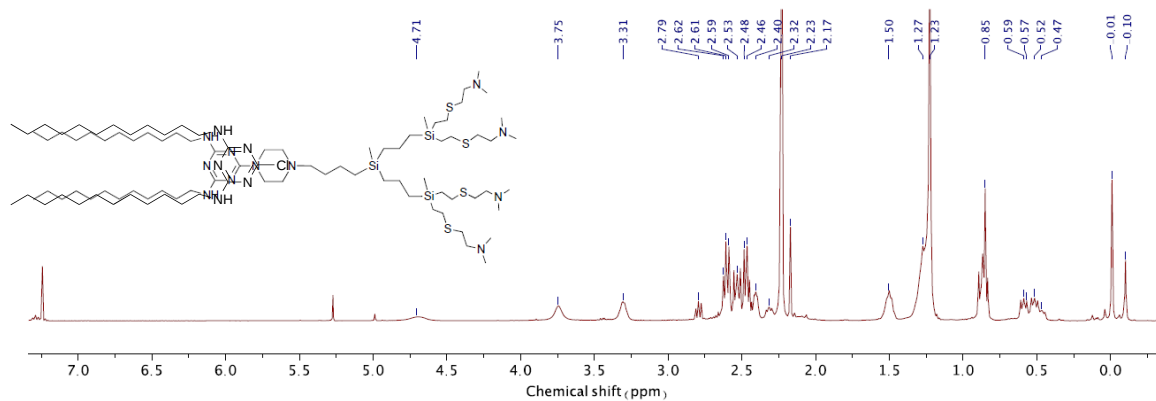
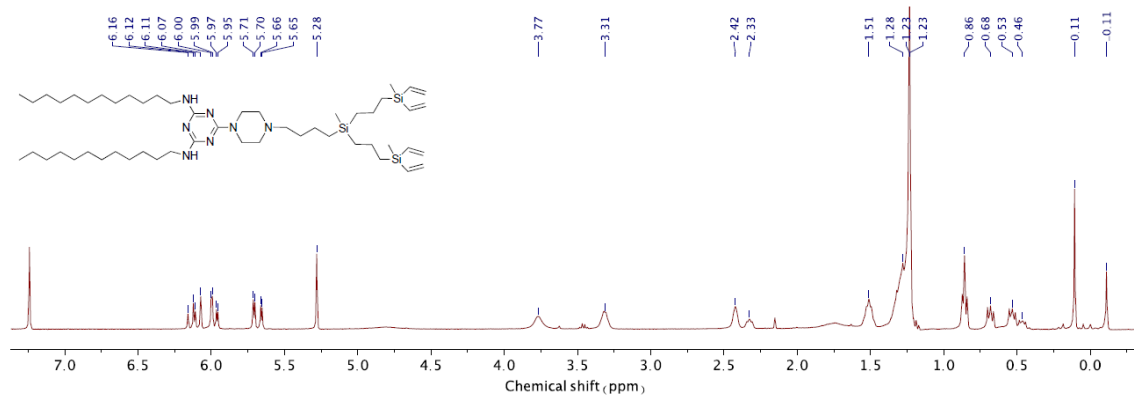
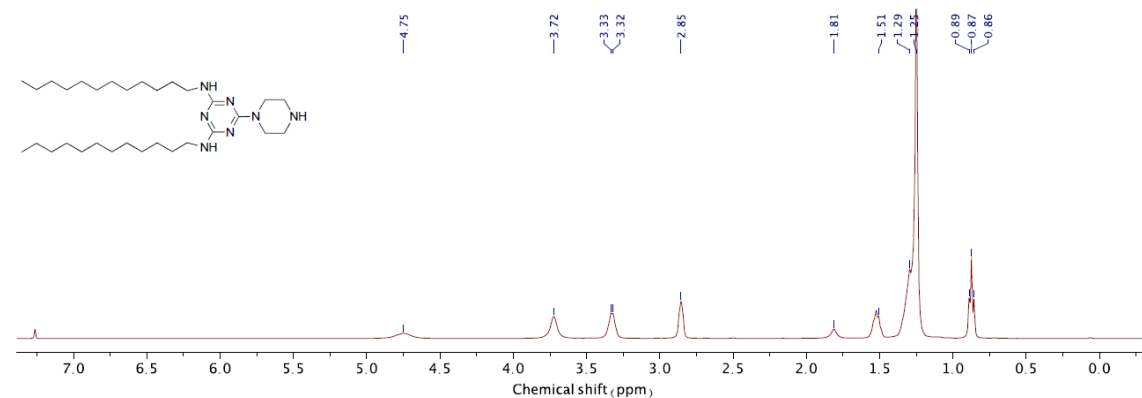
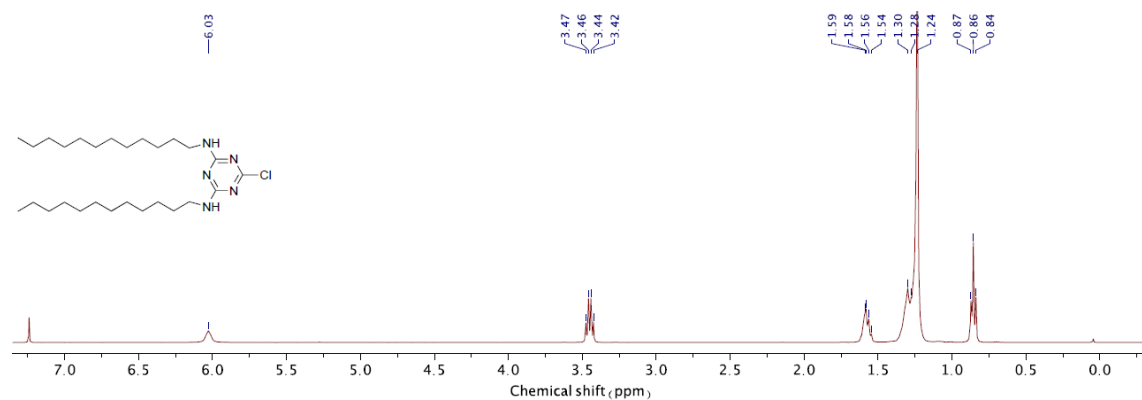


**Figure S4.** Fluorescence microscopy images of 1301 cells incubated with blank dendrimersomes (DS), doxorubicin (DOX) and doxorubicin-loaded dendrimersomes (DOX@DS). Scale bar represents 20  $\mu\text{m}$ .

## Apoptosis induction studies



**Figure S5.** Representative FACS plots of 1301 cells incubated with PBS (non-treated control), blanc dendrimersomes (DS), doxorubicin (DOX) and doxorubicin-loaded dendrimersomes (DOX@DS) followed by staining with FITC-Annexin V and 7-AAD.

**<sup>1</sup>H NMR spectra (CDCl<sub>3</sub>)**

## MS spectrum of the amphiphilic dendron G2

