

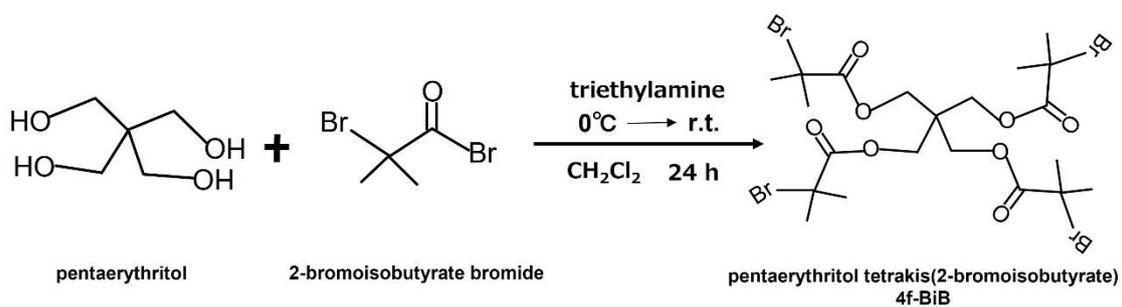
[Supporting Information]

# Cellular Internalization and Exiting Behavior of Zwitterionic 4-Armed Star-Shaped Polymers

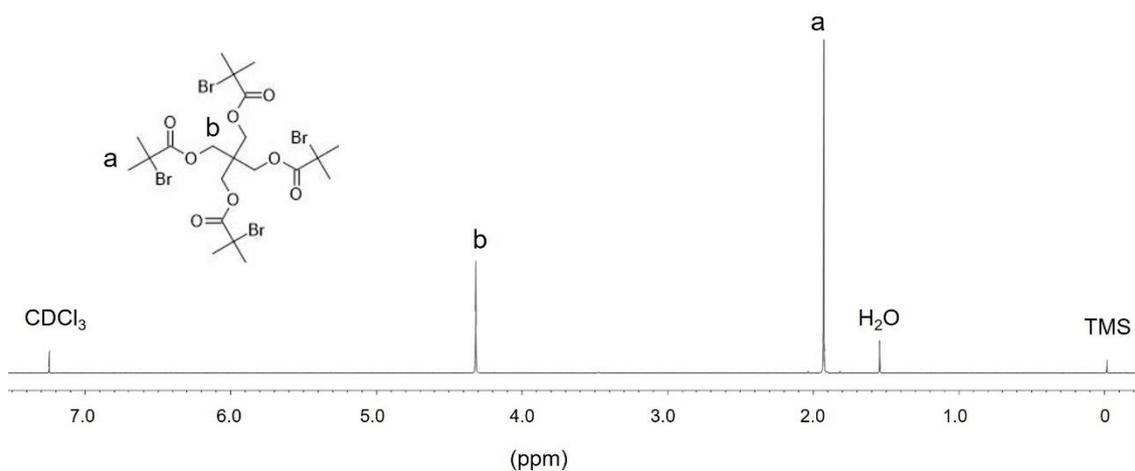
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**Scheme S1.** Synthesis of pentaerythritol tetrakis(2-bromoisobutyrate) (4f-BiB).

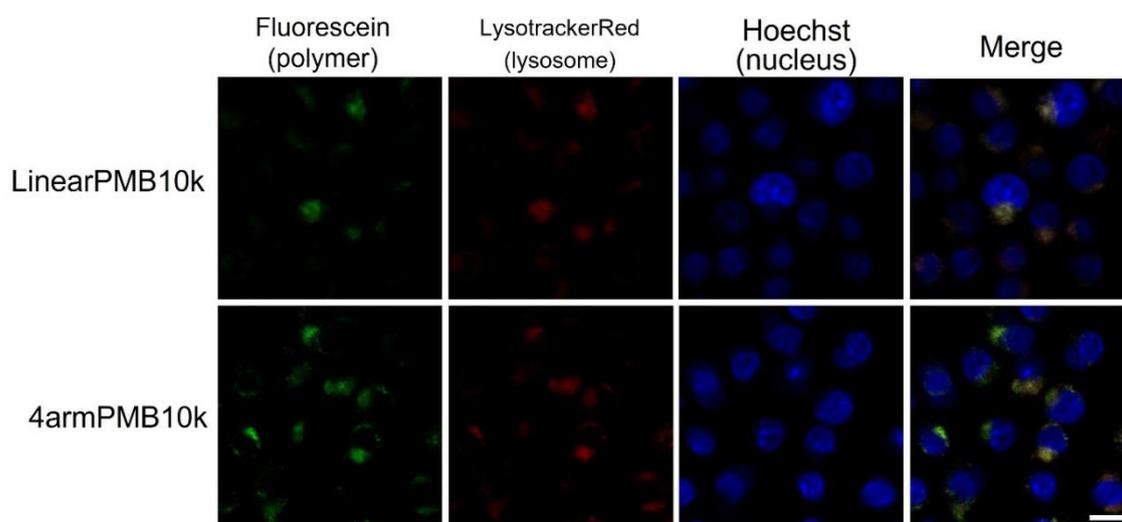


**Figure S1.** <sup>1</sup>H-NMR spectrum of pentaerythritol tetrakis(2-bromoisobutyrate) 4f-BiB (600 MHz, CDCl<sub>3</sub>).

**Table S1.** The reaction conditions of polymerization

Abb.	The Feed Ratio of [Monomer]/[Initiator]	Solvent
4armPMB10k	44	Ethanol/DMF (19/1, v/v)
4armPMB40k	177	Ethanol/DMF (19/1, v/v)
LinearPMB10k	44	Ethanol
LinearPMB40k	177	Ethanol
4armPMPC10k	36	Ethanol/DMF (19/1, v/v)

The feed ratio of [CuBr<sub>2</sub>]/[Initiator] = 1/50. The feed ratio of [2,2'-bipyridyl]/[Initiator] = 1/1. The feed ratio of [Ascorbic acid]/[Initiator] = 10/1.



**Figure S2.** Confocal laser-scanning microscopic (CLSM) images of DC2.4 cells. Cells were incubated with 1 mg/mL of polymers in the presence of 10% FBS-supplemented RPMI-1640 for 6 h. Polymers were labeled with 0.1mol% of fluorescein methacrylate and cells were stained with LysoTrackerRed (lysosome) and Hoechst33342 (nucleus). Scale bar represents 20  $\mu$ m. Images were acquired by using Nikon C2 confocal microscope.