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Synthesis of high functionality and quality mannose-grafted lipids to produce macrophage-targeted liposomes

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ABSTRACT

The mannose receptor, which is responsible for tumor invasion, proliferation, and metastasis in the tumor microenvironment, is overexpressed in tumor-associated macrophages. Mannose is commonly applied to PEGylated liposomes in macrophage-targeted cancer therapy. To develop a high functionality and quality (HFQ) lipid for macrophage-targeted liposomes, we designed a novel mannosylated lipid with improved mannose receptor binding affinity using serine–glycine repeats (SG)_n. We

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