Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B.

Supplementary data

Mannan-based conjugates as a multimodal imaging platform for lymph nodes

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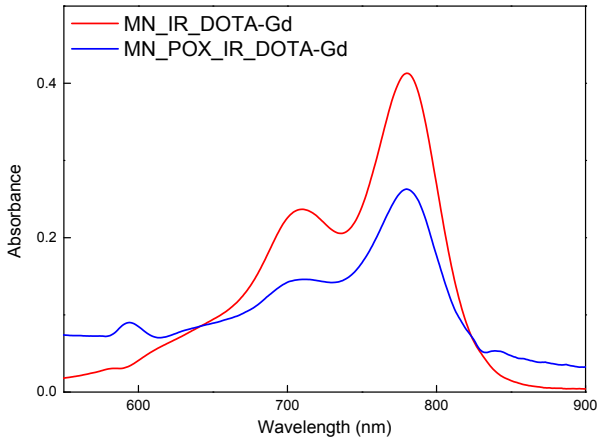

Figure SI-1. UV-Vis absorption spectra of MN_IR_DOTA-Gd (red) and MN_POX_IR_DOTA-Gd (blue) in PBS (2 mg/ml; pH=7.4)

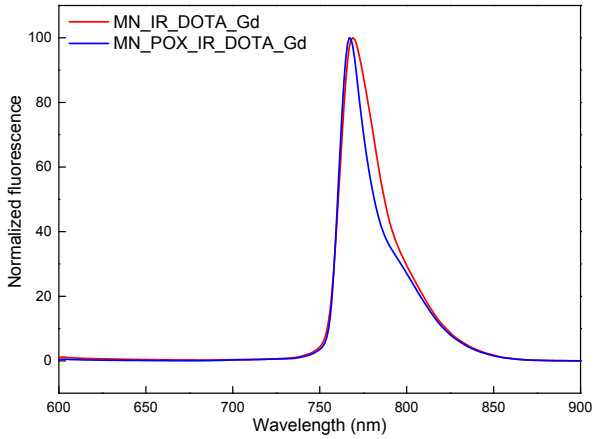

Figure SI-2. Fluorescence spectra of MN_IR_DOTA-Gd (red) and MN_POX_IR_DOTA-Gd (blue) in PBS (1 mg/ml; pH=7.4)

Regression analysis of fluorescent signal from injected site

Using the obtained data of FL signal from injected site (muscle), we have conduct a regression analysis (steady monotonous decrease in the contrast agent concentration after day 1 within the whole observation period) in order to determine the time period required for complete exclusion of the contrasts. The calculated values were found to be equal 41 and 44 days for MN_IR_DOTA-Gd and MN_POX_IR_DOTA-Gd, respectively (Figure SI-3). Such time is more than twice longer compared to the typical cytotoxic testing and would be hardly feasible.

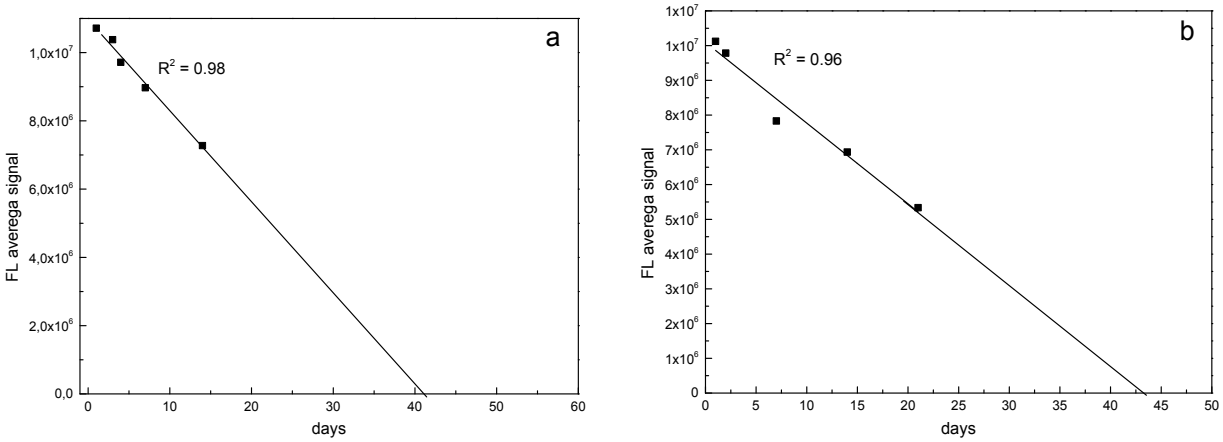

Figure SI-3. Analysis of FL signal regression for MN_IR_DOTA-Gd (a) and MN_POX_IR_DOTA-Gd (b) probes originating from the injected site