Supplementary material

Engineering of NIR Fluorescent PEGylated Poly(RGD) Proteinoid Polymers and Nanoparticles for Drug Delivery Applications in Chicken Embryo and Mouse Models

Elad Hadad, a Safra Rudnick-Glick, a Igor Grinberg, a Ronen Yehudab and Shlomo Margel* a

a. Department of Chemistry, Institute of Nanotechnology & Advanced Materials, Bar Ilan University, Ramat-Gan, Israel
b. Department of Life Science, Bar Ilan University, Ramat-Gan, Israel
*Corresponding author

Supporting information including:

Figure S1. DLS of PEGylated(5000) ICG-encapsulated P(R D GD) NPs, PEGylated (750) ICG-encapsulated P(R D GD) NPs, and non-PEGylated of ICG-encapsulated P(R D GD) NPs

Table S1. Hydrodynamic diameters (nm) of PEGylated(5000) ICG-encapsulated P(R D GD) NPs, PEGylated (750) ICG-encapsulated P(R D GD) NPs, and non-PEGylated of ICG-encapsulated P(R D GD) NPs
Figure S1. Size distributions measured by the DLS at the beginning of the storage and at 30 days following the start of PEGylated (5000) ICG-encapsulated P(RGD) NPs (A,D), PEGylated (750) ICG-encapsulated P(RGD) NPs (B,E), and non-PEGylated of ICG-encapsulated P(RGD) NPs(C,F), respectively.
Table S1. Analyze of the size distributions measured by the DLS at the beginning of the storage and at 30 days following the start of PEGylated (5000) ICG-encapsulated P(R\textsubscript{DG}D) NPs, PEGylated (750) ICG-encapsulated P(R\textsubscript{DG}D) NPs, and non-PEGylated of ICG-encapsulated P(R\textsubscript{DG}D) NPs. No significantly change in the non-PEGylated and PEGylated ICG-encapsulated P(R\textsubscript{DG}D) NPs diameter was observed.

| NPs series                                      | hydrodynamic diameter following 1 day of storage (nm) | hydrodynamic diameter following 30 day of storage (nm) |
|------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|
| ICG-encapsulated P(R\textsubscript{DG}D)       | 93±20                                                  | 93±23                                                  |
| PEGylated (750) ICG-encapsulated P(R\textsubscript{DG}D) | 177 ± 30                                               | 140±20                                                 |
| PEGylated (5000) ICG-encapsulated P(R\textsubscript{DG}D) | 216 ± 25                                               | 215±22                                                 |