

Supporting Information

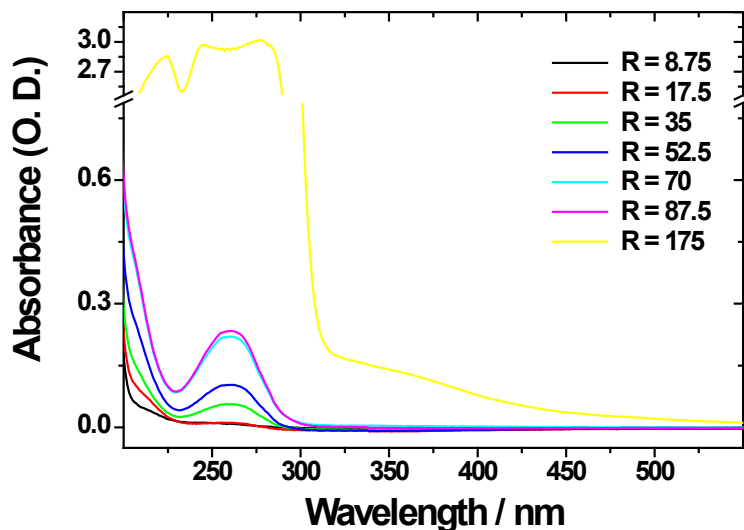


Figure S1. UV-visible spectra of the supernatants after complexation of Li28 with iron oxide nanoparticles for the different values of R .

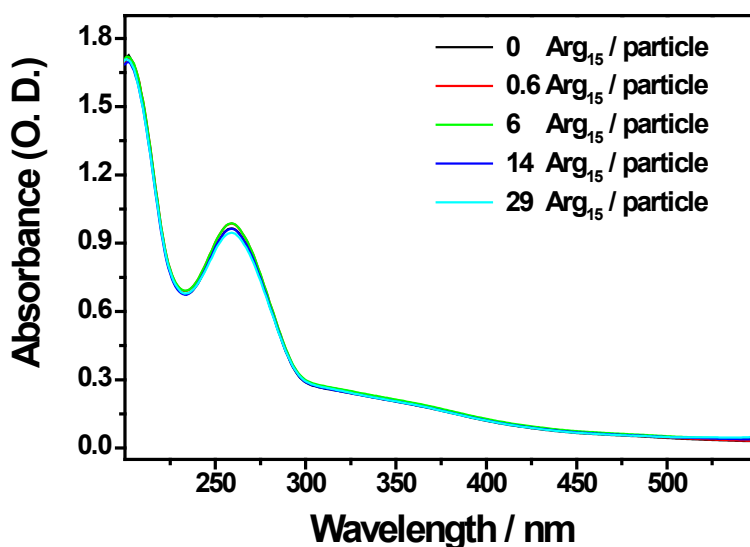


Figure S2. UV-visible spectra of the supernatants after complexation (“step by step”) of Li28 and Arg₁₅ with iron oxide nanoparticles for the different amounts of Arg₁₅.

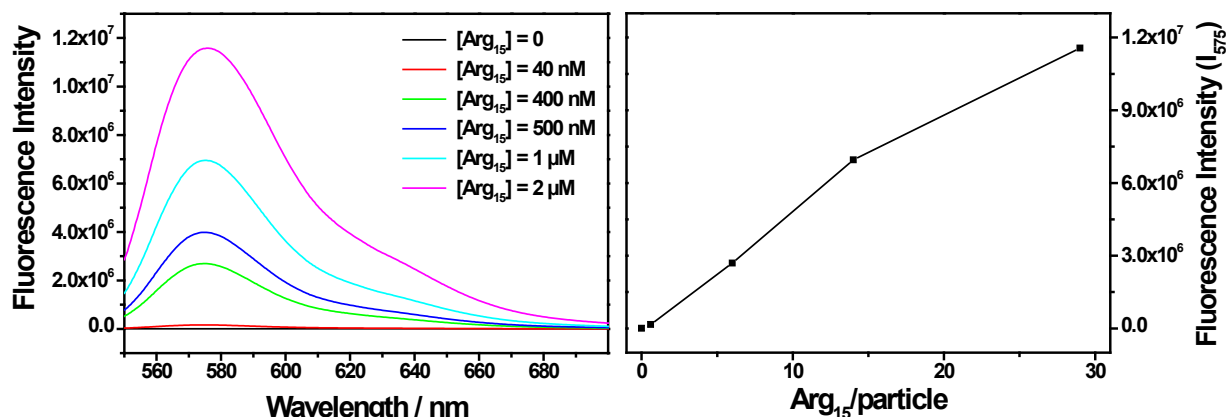


Figure S3. Fluorescence spectra of the TAMRA-labeled Arg₁₅ and calibration curve.

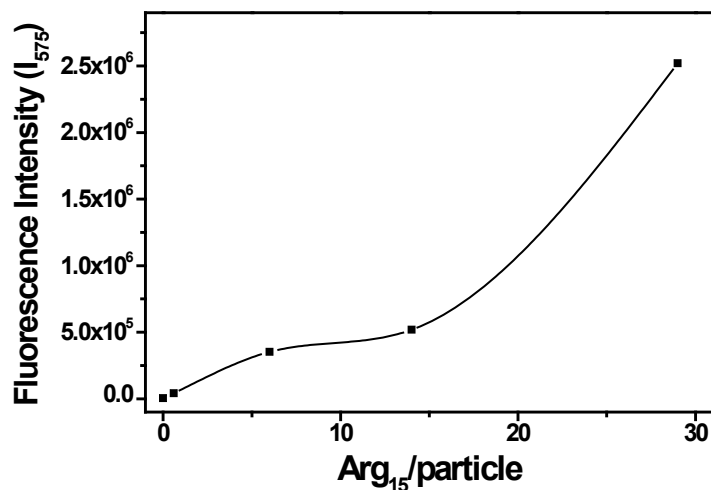


Figure S4. Fluorescence spectra of the supernatants after complexation (“step by step”) of Li28 and Arg₁₅ with iron oxide nanoparticles for the different amounts of Arg₁₅.

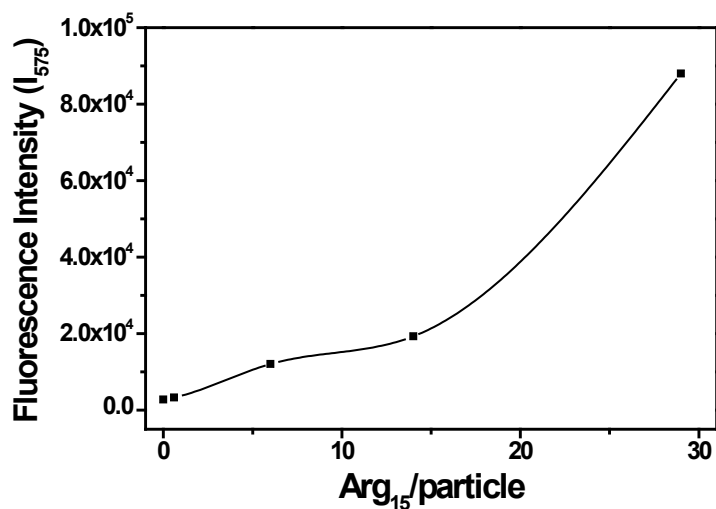


Figure S5. Fluorescence spectra of the complexes (complexation “step by step”) of Li28 and Arg₁₅ with iron oxide nanoparticles for the different amounts of Arg₁₅.

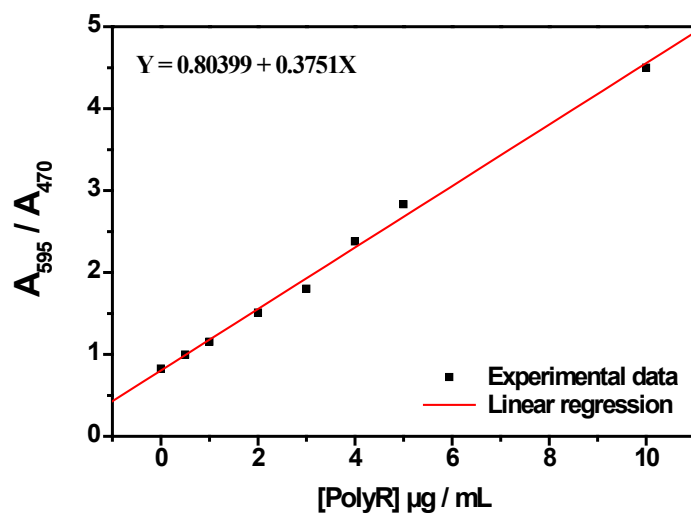


Figure S6. Calibration curve of the Bradford PolyR assay.

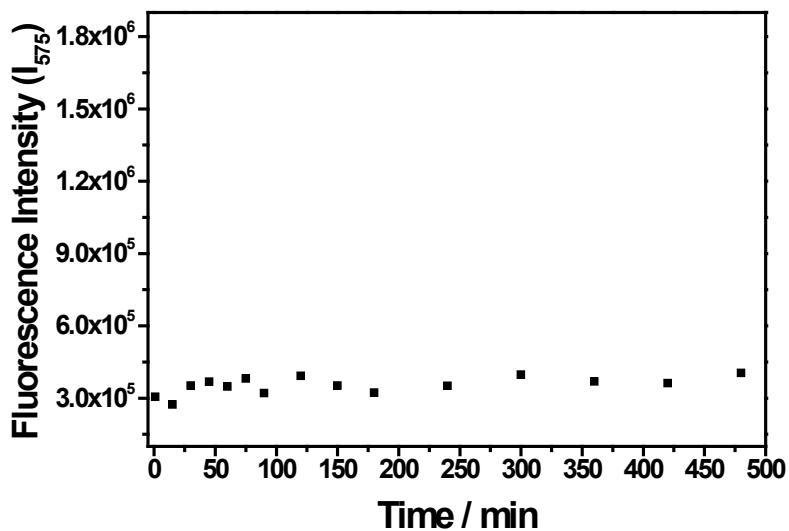


Figure S7. Fluorescence intensity of the nanocomplex in the presence of 10% serum.

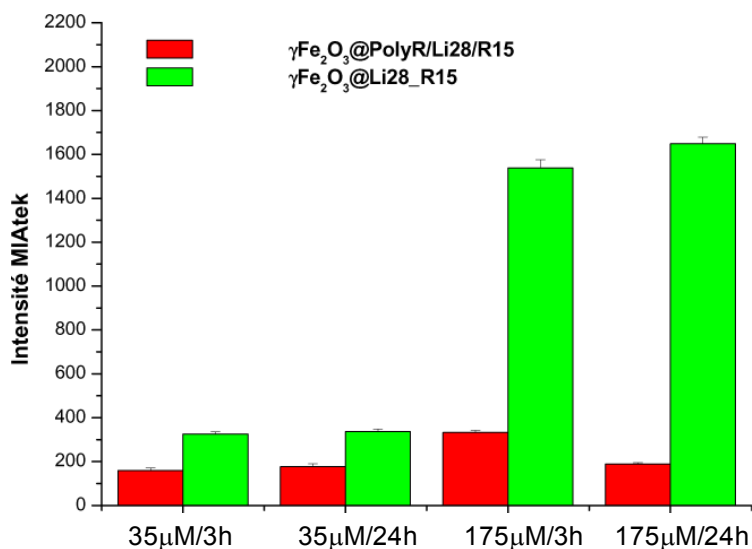


Figure S8. Intracellular internalisation of NPs was quantified with the MIAtek kit, 3 h after incubation with the NPs, and after a subsequent 24-h wash-out period.

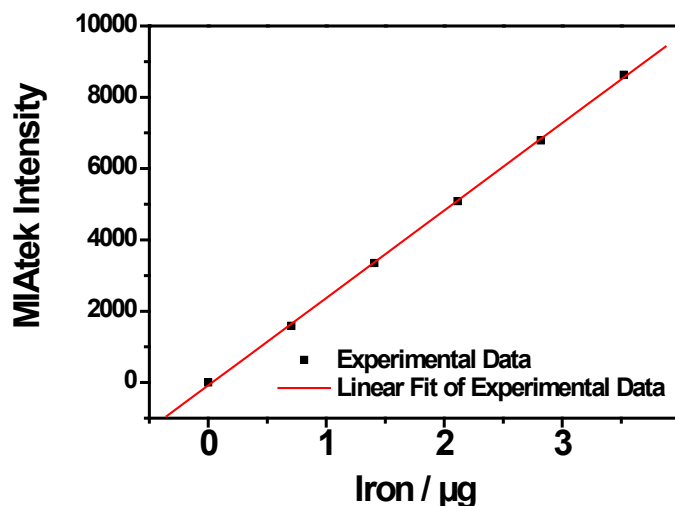


Figure S9. Calibration curve used for the MIAtek quantification.

Table S1. Percentage yield of complexation of Li28 with iron oxide nanoparticles for the different values of *R*.

Values	<i>R</i>						
	8.75	17.5	35	52.5	70	87.5	175
Yield %	98.3	98.9	98	98.1	95.9	96.7	-
Li28/particle	8.6	17.3	34.3	51.2	67.1	84.6	-

Table S2. Percentage yield of complexation of Arg₁₅ (complexation “step by step”).

Values	(Arg ₁₅ /Particle)				
	0	0.6	6	14	29
Yield %	-	74	87	92	78
Arg ₁₅ /particle	-	0.4	5	13	23

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