Electronic Supplementary Information

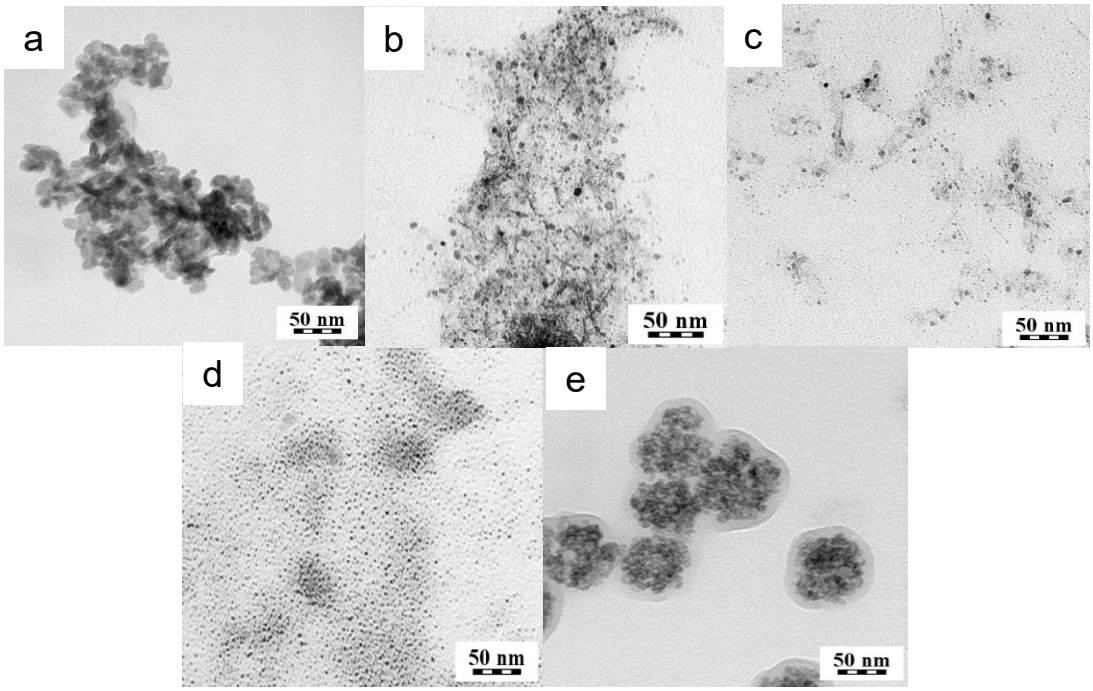

Figure S1. TEM micrographs of (a) GdF_3@EG and (b-d) GdF_3@PSSMA particles prepared with (b) 1, (c) 5, (d) 15 mg of PSSMA/ml in the feed, and (e) GdF_3@PSSMA-PSDA-A488 nanoparticles.

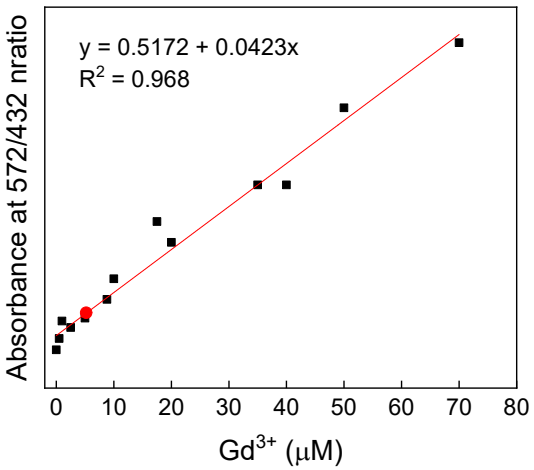

Figure S2. Calibration curve of $GdCl_3$ (0-70 μM of Gd^{3+}) determined by xylenol orange (18 μM) and the amount of free Gd^{3+} (5.5 μM; red circle) released from aqueous GdF_3@PSSMA-PSDA-A488 (3.7 mM of Gd^{3+}) dispersion stored at RT for 40 days.

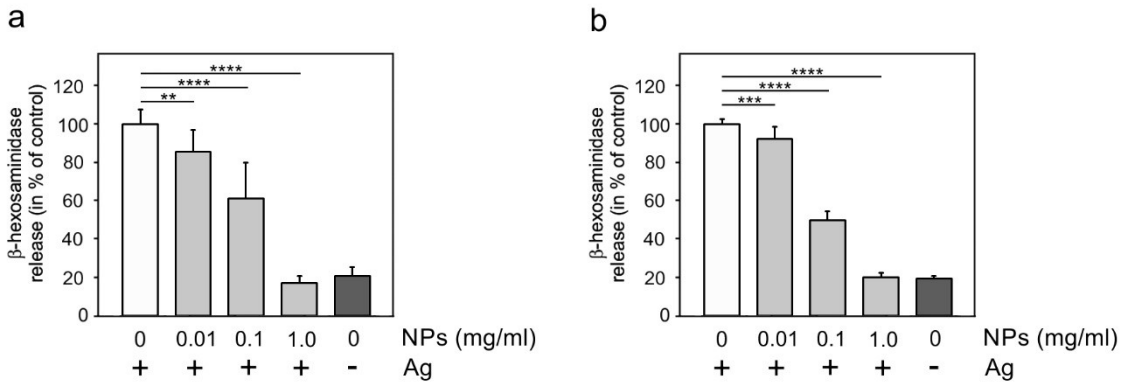

Figure S3. Effect of GdF_3@PSSMA-PSDA-A488 nanoparticles (NPs) on degranulation in (a) RBL and (b) BMMC cells. Degranulation in IgE-sensitized cells incubated with particles and antigen for 30 min. Degranulation was measured by β-hexosaminidase release and performed in RPMI 1640 medium without phenol red. The data represent the mean ± S.D. (n = 3 for RBL; n = 4 for BMMC) from the independent experiments performed in triplicates. Two-tailed unpaired Student's t test was performed to determine statistical significance. Activation of IgE-sensitized (1 μg/ml) cells by Ag (100 ng/ml) served as the positive control.