

Supplementary Materials

Hyaluronidase-Responsive Mesoporous Silica Nanoparticles with Dual-Imaging and Dual-Target Function

Table S1. Hydrodynamic size and zeta potential for MSN-EuGd and functionalized MSN-EuGd.

	MSN-EuGd	MSN-EuGd-NH	MSN-EuGd-TAT	MSN-EuGd-TAT-HA
Zetapotential (mV)	-14.5	-10.5	4.08	-17.3
Particle size (nm)	271.2	279.9	381.1	457.5

Table S2. ICP-MS analyze of MSN and MSN-EuGd.

Sample	Eu	Gd
MSN	0%	0%
MSN-EuGd	1.06%	1.02%

Table S3. TGA for the MSN-EuGd@CPT-TAT-PEG-FA.

MSN-EuGd	-NH ₂	-TAT	@CPT	-HA
Weight (%)	11.44	2.56	1.5	6.15
mg/g	129.17	26.27	15.22	65.53

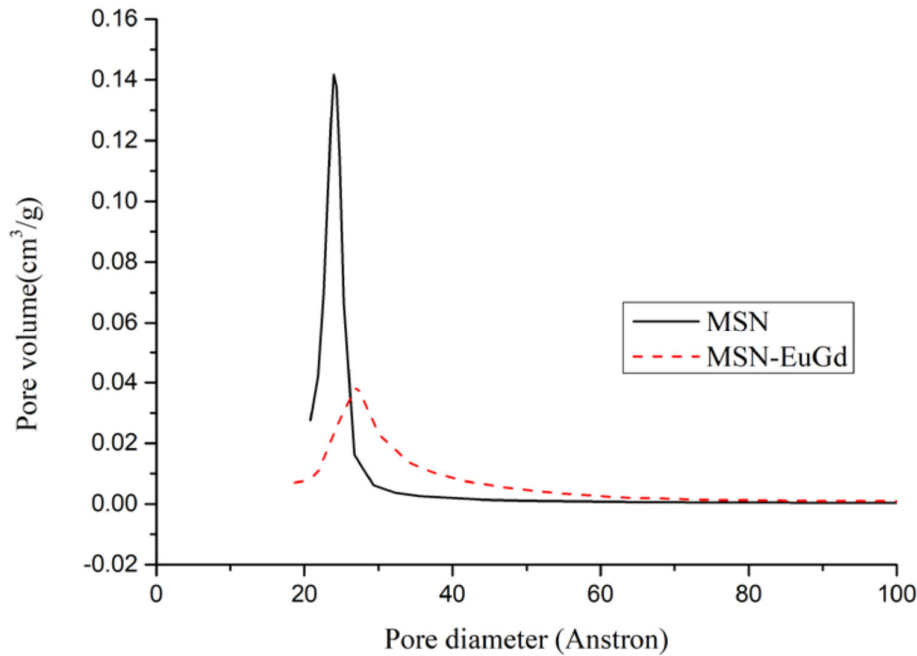


Figure S1. BJH pore size distribution of MSN and MSN-EuGd.

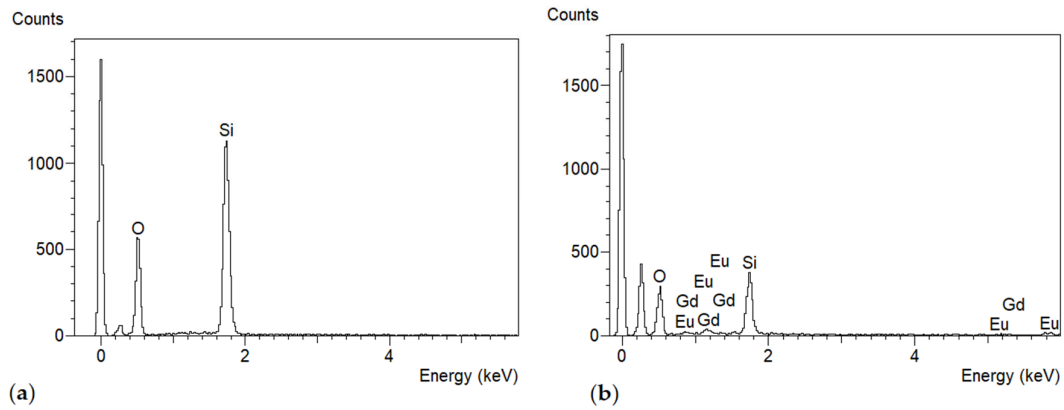


Figure S2. EDX spectral analyses of the (a) MSN and (b) MSN-EuGd.



Figure S3. MSN and MSN-EuGd powder taken under illumination by a 254 nm UV lamp.

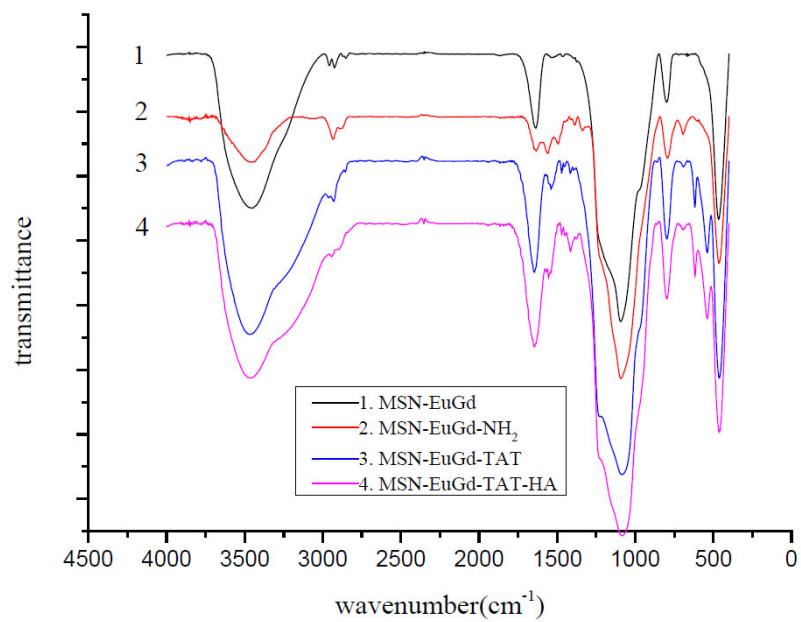


Figure S4. FTIR spectrum of MSN-EuGd and functionalized MSN-EuGd.

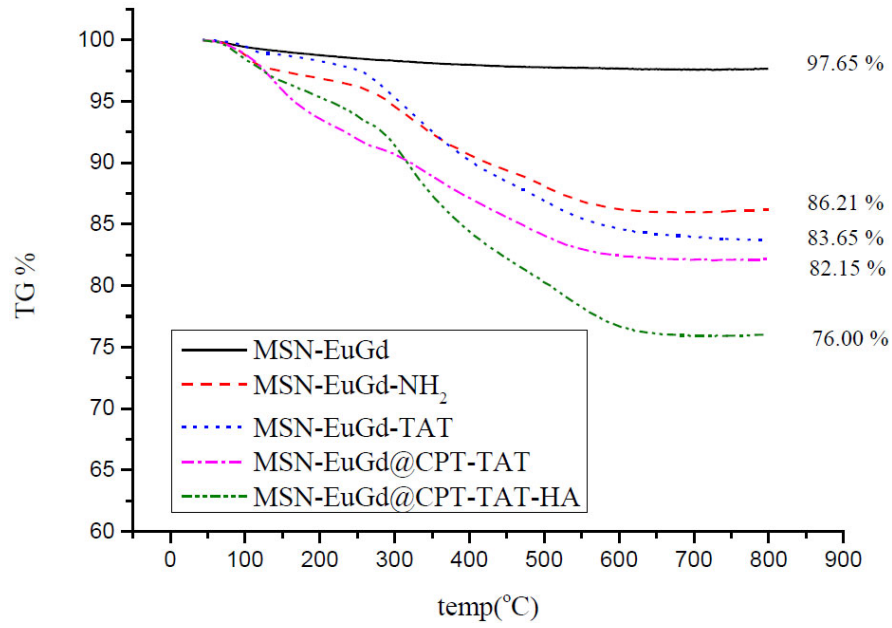


Figure S5. TGA patterns for the MSN-EuGd and functionalized MSN-EuGd.