Supplementary Materials:

Large Pore Mesoporous Silica and Organosilica Nanoparticles for Pepstatin A Delivery in Cancer Cells.

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Supplementary Figures:

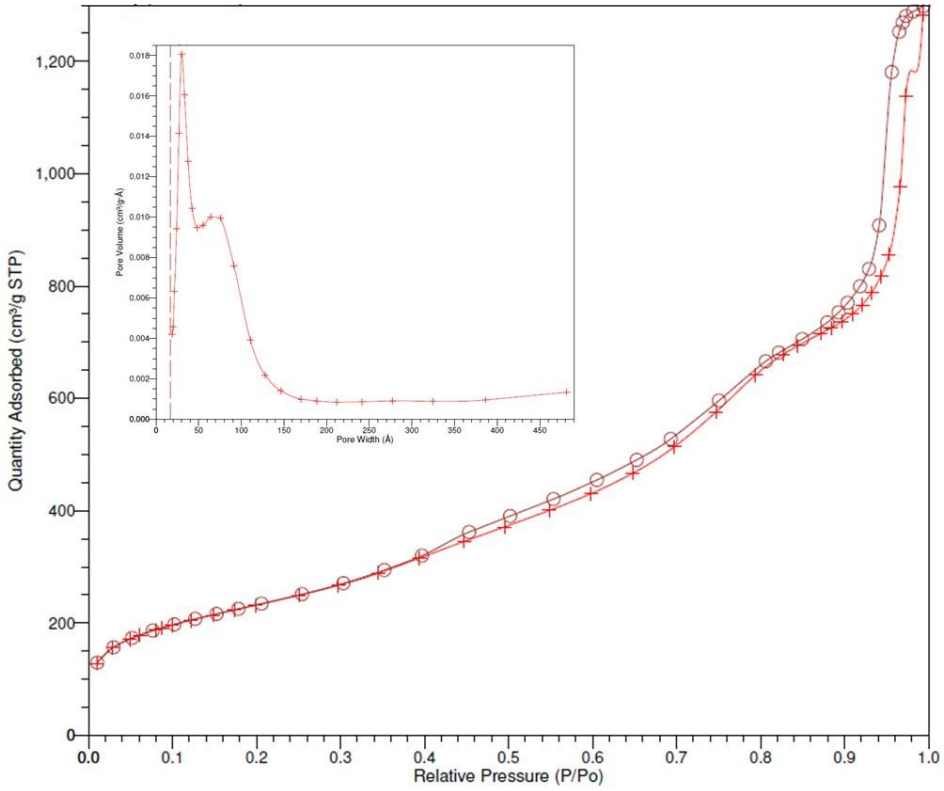

Figure S1. N_2 adsorption-desorption isotherm of LPMSNs and pore size distribution calculated by BJH method using the desorption branch. BJH adsorption cumulative volume of pores was 1.45 cm^3/g, and BJH desorption cumulative volume of pores was 1.93 cm^3/g. Although 3 nm sized pores were observed

in the pore size distribution, this should be partly due to the cavitation of nitrogen from the pores in the core part of LPMSNs.

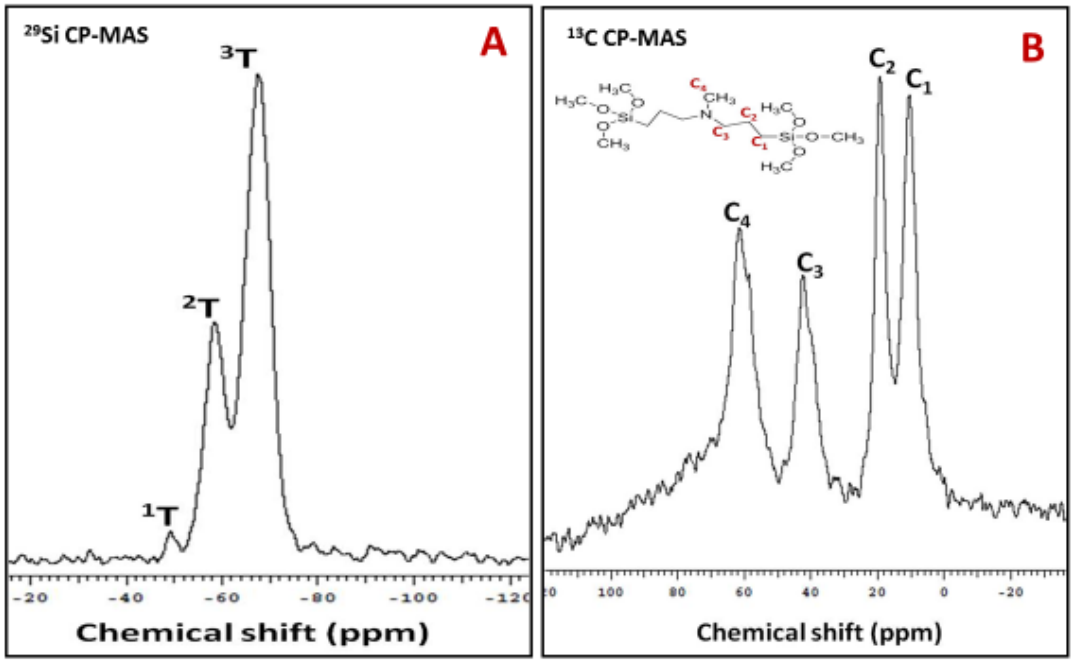

Figure S2. ^{29}Si (A) and ^{13}C CP/MAS (B) Solid state NMR of HOSNPs.

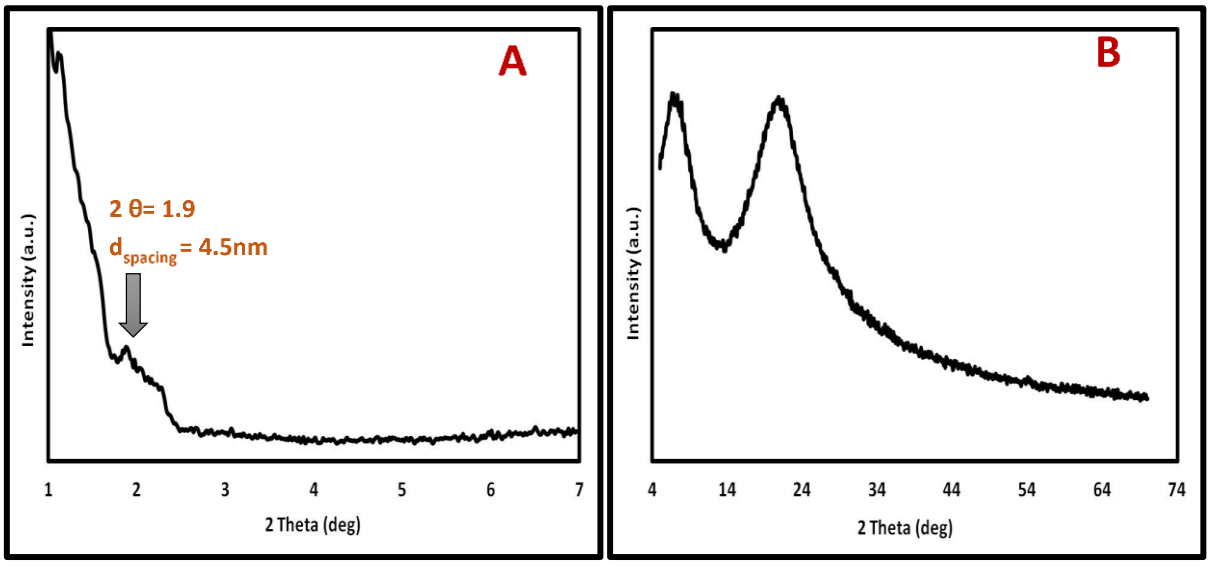

Figure S3. XRD patterns at small angles (A) and wide angles (B)

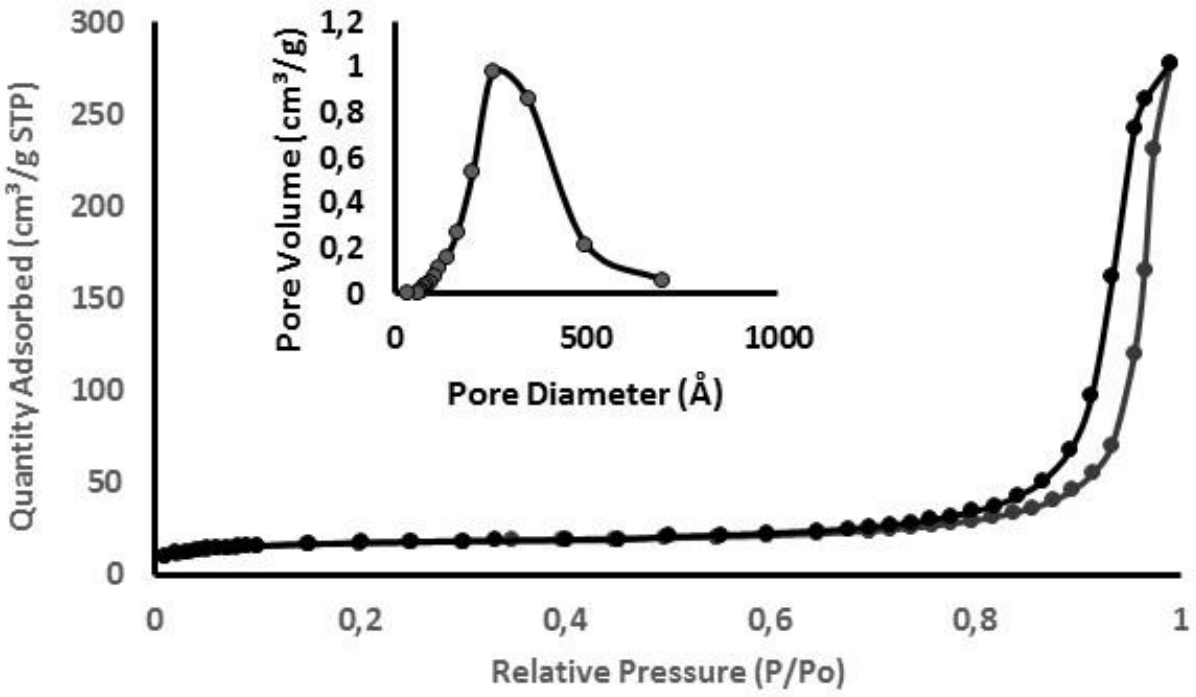

Figure S4. N_2 adsorption desorption, BET and BJH of HOSNPs. BJH Adsorption and Desorption cumulative volume of pores: 0.42 cm³/g.

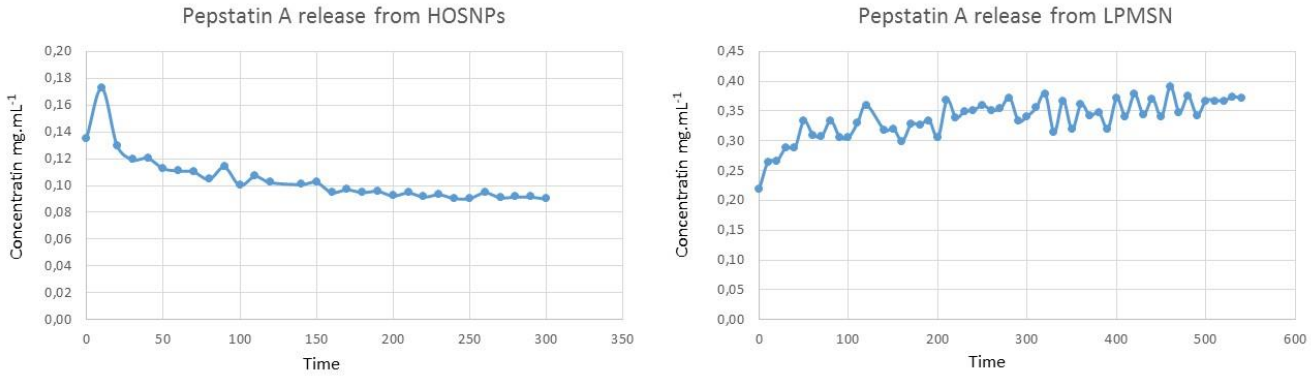

Figure S5. Release of Pepstatin A from HOSNPs and LPMSNs monitored with HPLC/MS.

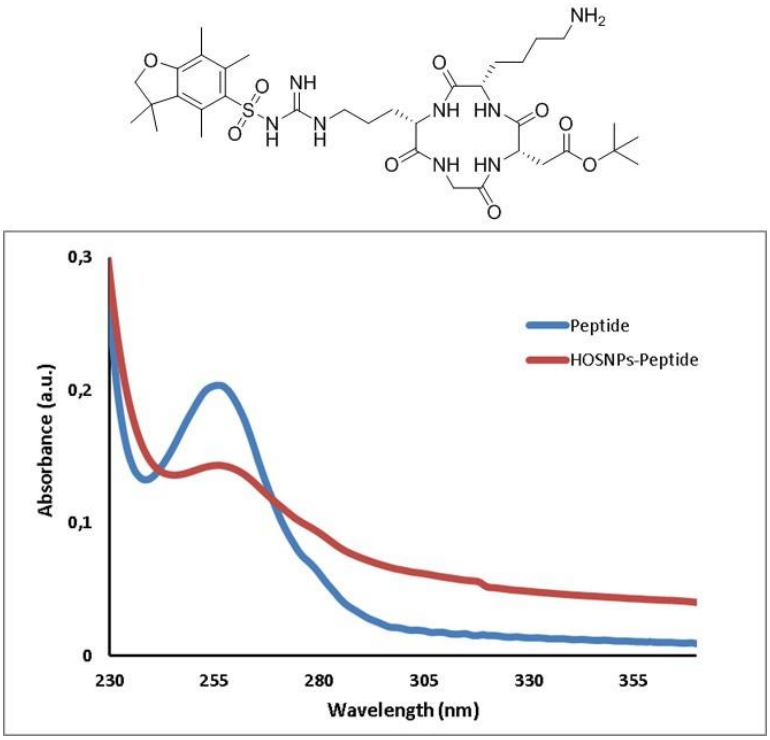

Figure S6. Structure of the RGD peptide and UV-Vis analysis in water.

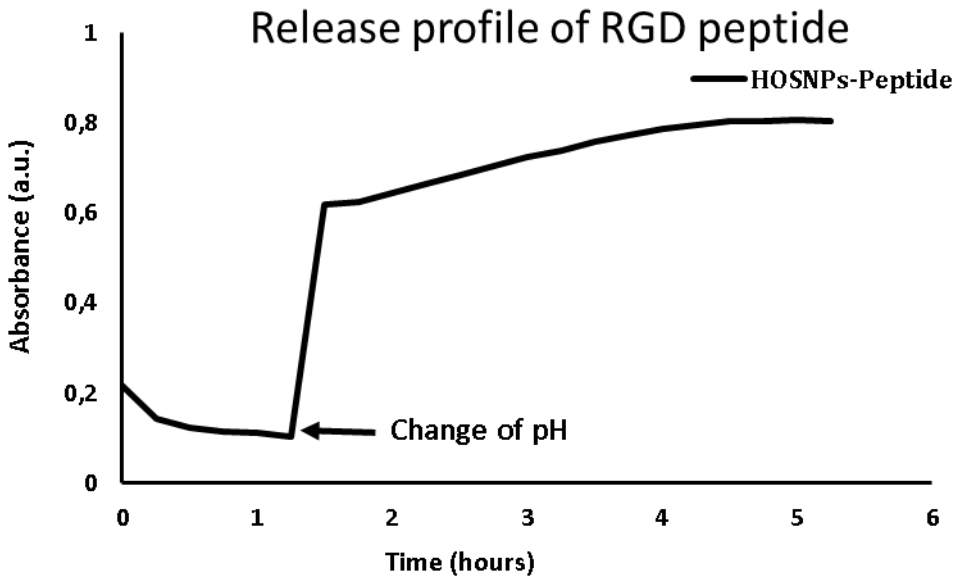

Figure S7. Release of the RGD peptide from HOSNPs at pH 7 and pH 5 monitored at 255 nm, 16% of the peptide was released.