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Electronic Supplementary Information (ESI)

of

Theranostic magneticnanoparticles for efficient capture and *in situ* chemotherapy of circulating tumor cells

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Table S1. Elemental analysis of CMD, dex-C≡C, dex-SP94 and dex-NH_2.

	N	C	H	O
CMD	0.377%	36.89%	5.599%	57.124%
dex-C≡C	2.335%	37.78%	5.862%	54.104%
dex-SP94	10.29%	50.81%	8.051%	30.849%
dex-NH_2	6.318%	35.90%	5.996%	51.966%

Table S2. Zeta potential of Fe_3O_4, Fe_3O_4–NH_2, Fe_3O_4–SP94/DOX, Fe_3O_4–SP94 and Fe_3O_4–DOX.

Material	Zeta Potential (mV)
Fe_3O_4	-5.0
Fe_3O_4–NH_2	31.5
Fe_3O_4–SP94/DOX	-17.5
Fe_3O_4–SP94	-11.6
Fe_3O_4–DOX	-15.8

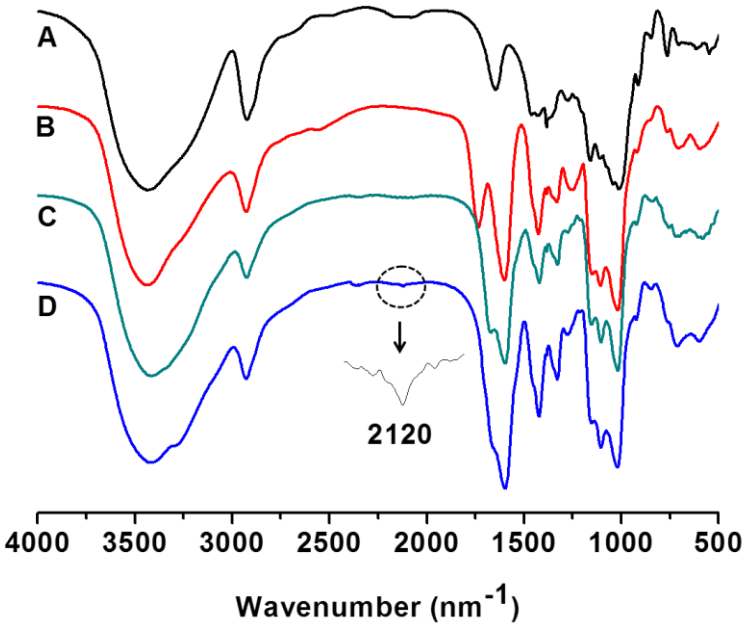

Fig. S1 FT-IR spectrum of (A) dextran, (B) CMD, (C) dex-NH_2 and (D) dex-C≡C.

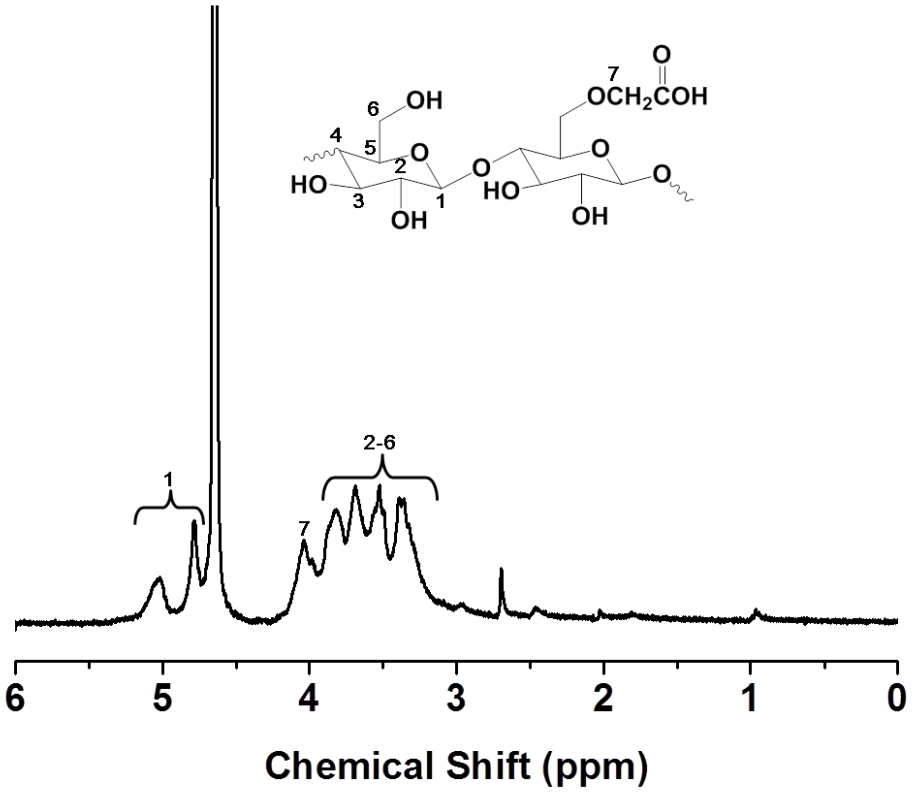

Fig. S2 ^{1}HNMR spectrum of CMD.

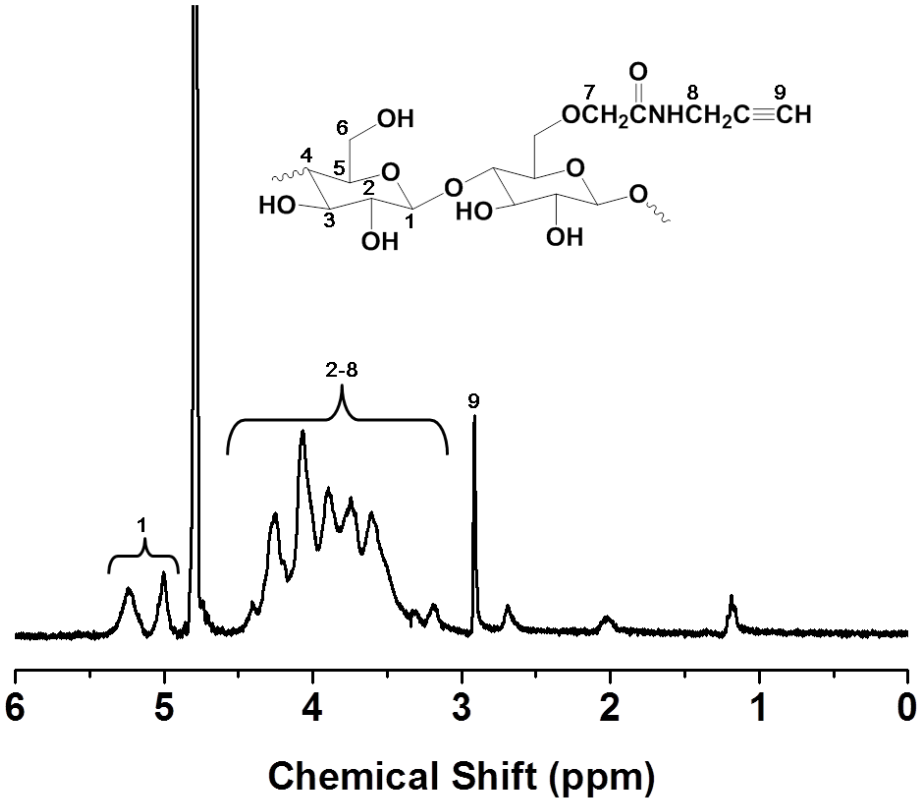

Fig. S3 ^{1}HNMR spectrum of dex-C≡C.

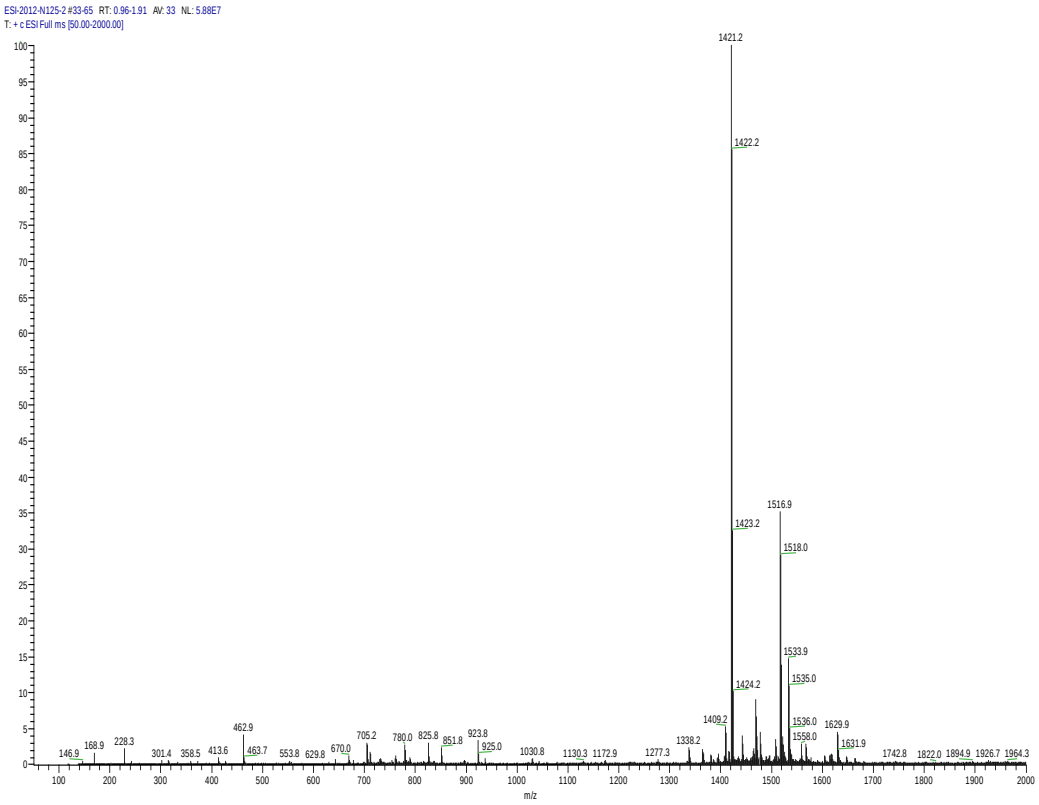

Fig. S4 ESI-MS spectrum of N_3-SP94.

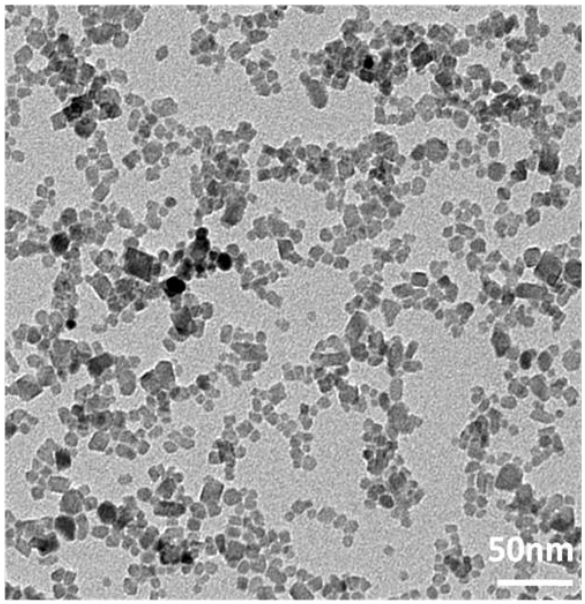

Fig. S5 TEM of Fe_3O_4-NH_2.