A. Preparation of Nanoparticles
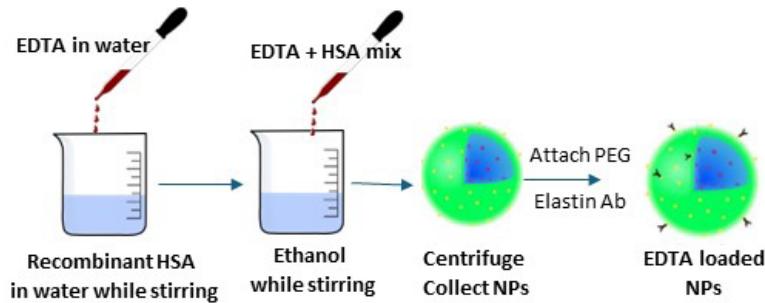

Figure S1 Formulation of anti-elastin antibody coupled EDTA-loaded albumin nanoparticles. EDTA, ethylene diamine tetraacetic acid; HSA, human serum albumin; NPs, nanoparticles; PEG, polyethylene glycol; Ab, antibody.

Table S1 Primer sequences used for gene expression analysis

Gene	Name	Forward primer	Reverse primer	Accession number
BMP2	Bone morphogenic protein 2	TGTGAGGATTAGCAGGTCTTTG	CTCGTTTGTGGAGTGGATGT	NM_017178.2
RUNX2	Runt-related transcription factor 2	GCACCCAGCCCATAATAGA	TTGGAGCAAGGAGAACCC	NM_017325.2
Pit-1	Sodium-dependent phosphate co-transporter 1	ACAACAGCTACACATCCTACAC	CCAAGTCAGCGTTTCCATTTC	NM_031148.1
HPRT1	Hypoxanthine phosphoribosyltransferase 1	GACCGGTTCTGTCATGTCG	ACCTGGTTCATCATCACTAATCAC	NM_012583.2

Table S2 Characteristics of EDTA-HSA-El-Ab NPs

Characteristics	Values
Size (nm)	~400
Zeta potential (mV)	−24
Yield (%)	51
EDTA loading by HPLC (w/w%)	14.81

HPLC, high performance liquid chromatography; EDTA-HSA-El-Ab NPs, anti-elastin antibody conjugated ethylene diamine tetraacetic acid loaded human serum albumin nanoparticles.