

Supporting Information

**Multifunctional Metal Complex-based Gene Delivery for tumor
immune checkpoint blockade combination therapy**

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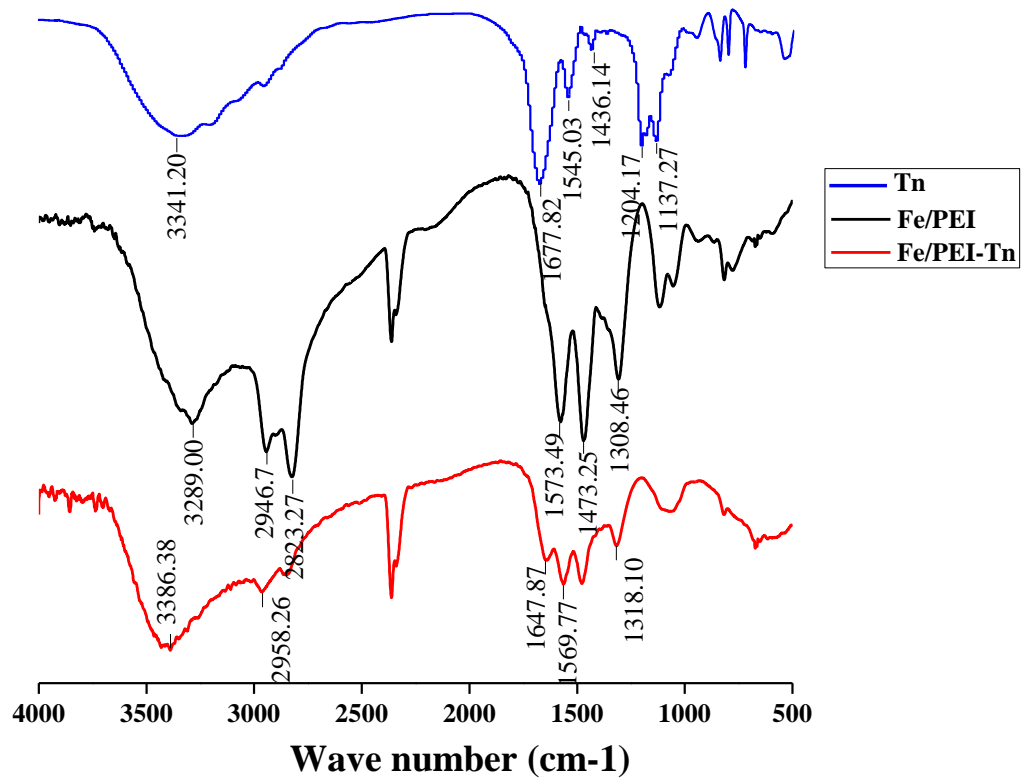


Figure S1 FTIR spectrum of Tn, Fe/PEI and Fe/PEI-Tn.

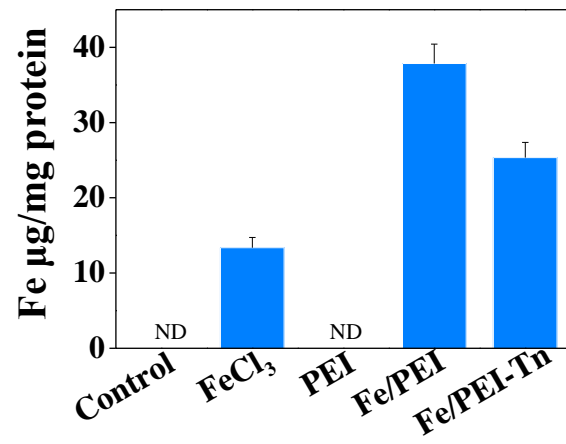


Figure S2 Fe³⁺ levels of RAW264.7 cells after being treated with different agents,

ND: Not detected (mean \pm SD, n = 3).

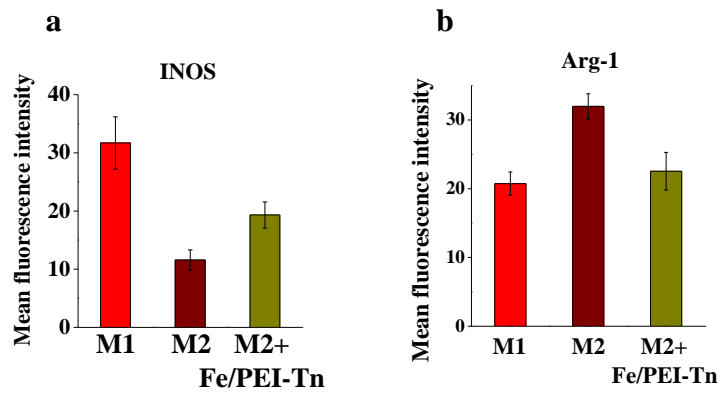


Figure S3 Mean fluorescence intensity of **a**) iNOS and **b**) Arg-1 in Figure 2g (mean \pm SD, n = 3).

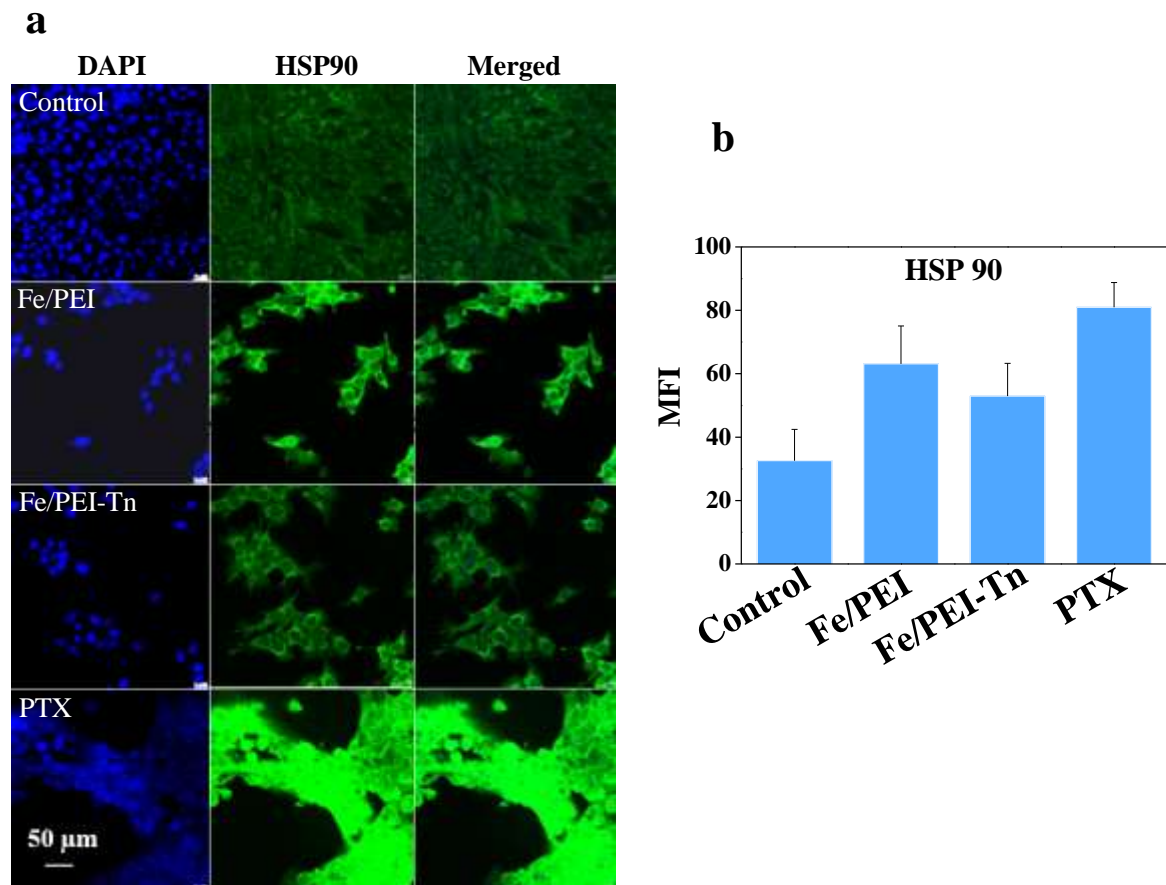


Figure S4 **a**) Immunofluorescence staining of HSP90 expression (green) on 4T1 cell surfaces after being treated with different agents (Scale bar: 50 μ m) and **b**) Mean fluorescence intensity of HSP90 (mean \pm SD, n = 3).

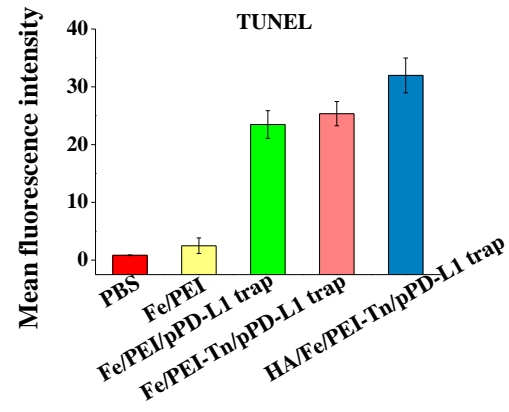


Figure S5 Mean fluorescence intensity of TUNEL assay in Figure 6d (mean \pm SD, n = 3).

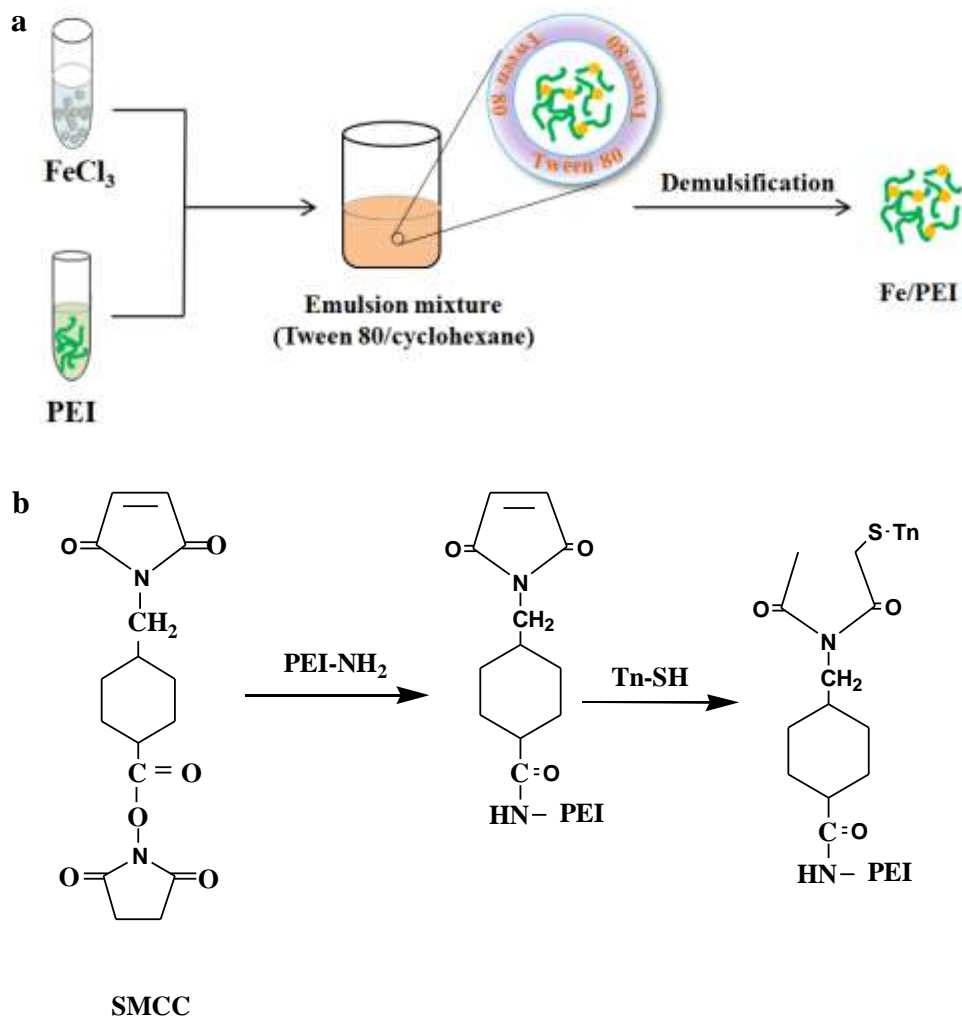


Figure S6 Synthesis procedure of **a**) Fe/PEI and the further coupling reaction **b**) between PEI and Tn using SMCC as a linker to obtain Fe/PEI-Tn.