

**Table S1**

<b>Parameters</b>	<b>Physio-chemical properties of nanoworms (NWs)</b>	
<b>Composition</b>	Dextran-coated aminated iron oxide-NW	
<b>Electric Charge (Zeta Potential)</b> (Measured in DI water)	Aminated-NW	11.10 ± 0.36 mV
	5K-PEG-NW	-1.35 ± 1.0 mV
	LinTT1-D[KLAKLAK] <sub>2</sub> -NW (includes 5K-PEG linker)	-1.26 ± 0.86 mV
<b>Size</b> (Measured by Dynamic Light Scattering)	Aminated-NW	45.6 ± 4.0 nm
	5K-PEG-NW	49.0 ± 1.0 nm
	LinTT1-D[KLAKLAK] <sub>2</sub> -NW (includes 5K-PEG linker)	49.0 ± 1.0 nm
<b>Shape (TEM)</b>	Elongated worm like particles	
<b>Peptide linkers</b>	5K-polyethylene glycol (PEG)	
<b>Surface density</b>	The final coupling ratio was 22 nmol of FAM-labeled peptide/mg of NW	