

Supporting Information for

Transdermal microneedle integrating a biomimetic self-enhancing Fenton reaction nano-reactor for alleviating rheumatoid arthritis by inflammatory microenvironment remodeling

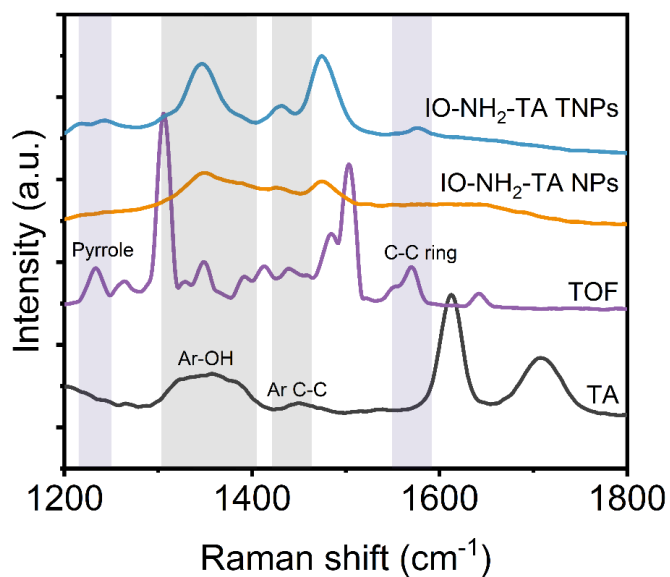


Figure S1. The Raman spectra of TA, TOF, IO-NH₂ NPs and IO-NH₂-TA TNPs.

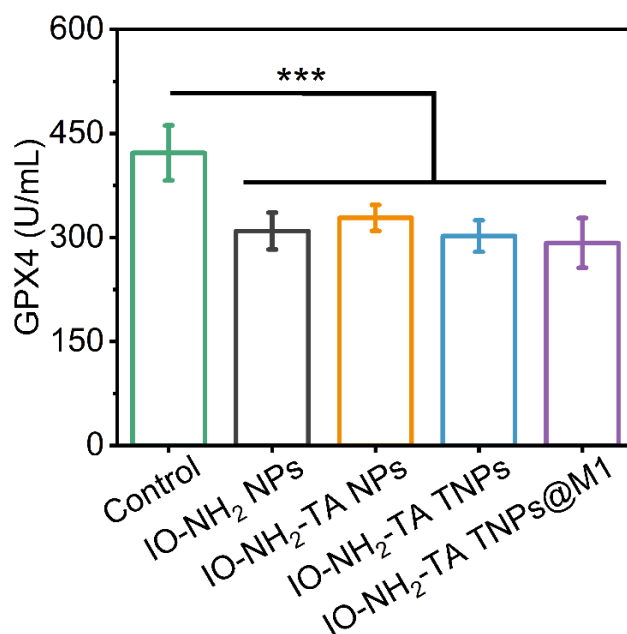


Figure S2. Expression levels of GPX4 in MH7H cells under various conditions.

Table S1 The particle size and zeta potential of IO-NH₂ NP、IO-NH₂-TA NPs、IO-NH₂-TA

TNPs and IO-NH ₂ -TA TNPs			
Name	Particle size (nm)	<i>PDI</i>	<i>zeta</i> potential (mV)
IO-NH ₂ NPs	218.4 ± 4.2	0.096 ± 0.012	0.00 ± 0.12
IO-NH ₂ -TA NPs	235.4 ± 6.3	0.154 ± 0.033	-37.97 ± 2.34
TO-NH ₂ -TA TNPs	276.5 ± 8.8	0.148 ± 0.046	-28.81 ± 3.01
IO-NH ₂ -TA TNPs@M1	294.5 ± 11.2	0.096 ± 0.039	-32.34 ± 1.97