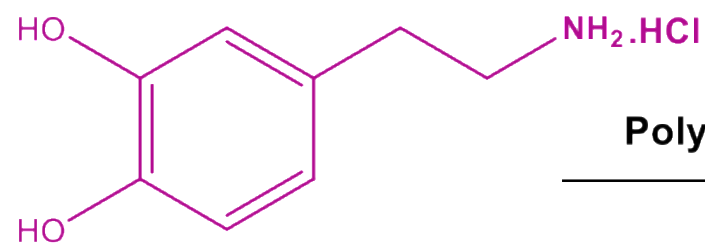
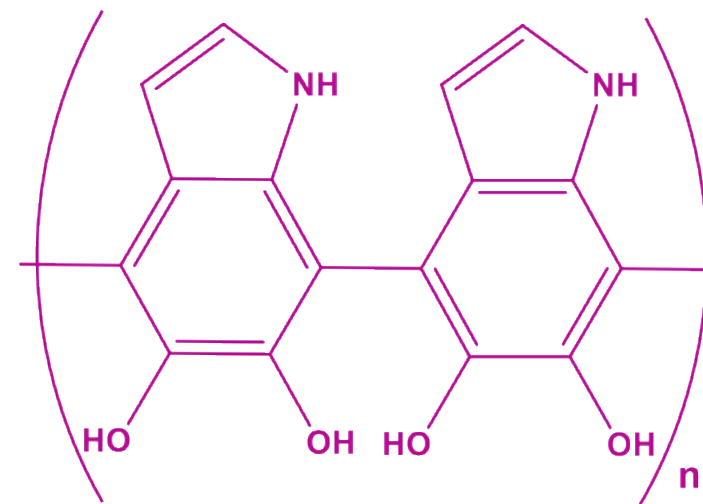


Suppl. Fig. 1 (Chemical structure of polymerization reaction)



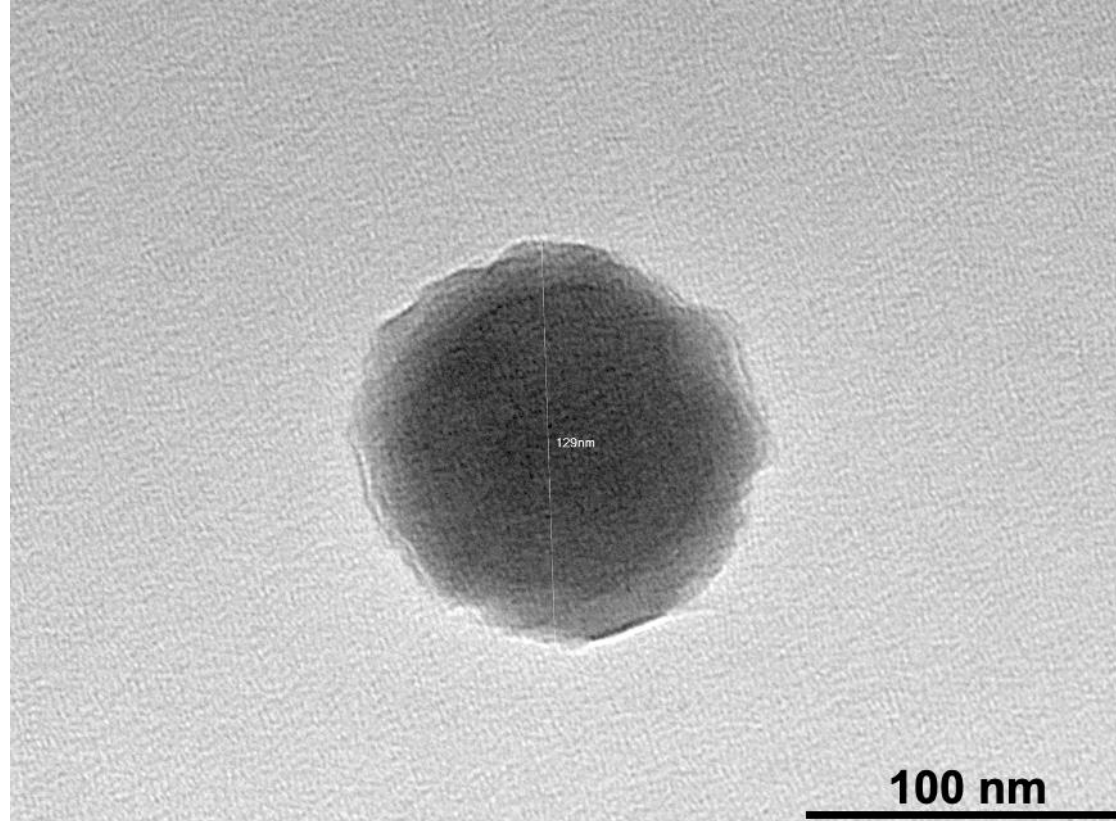
Dopamine hydrochloride

Polymerization

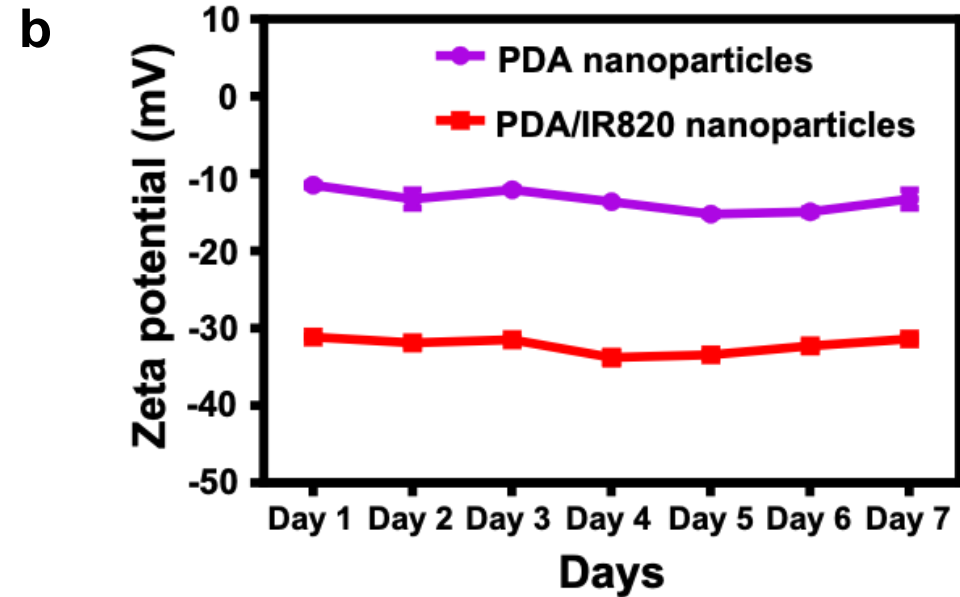
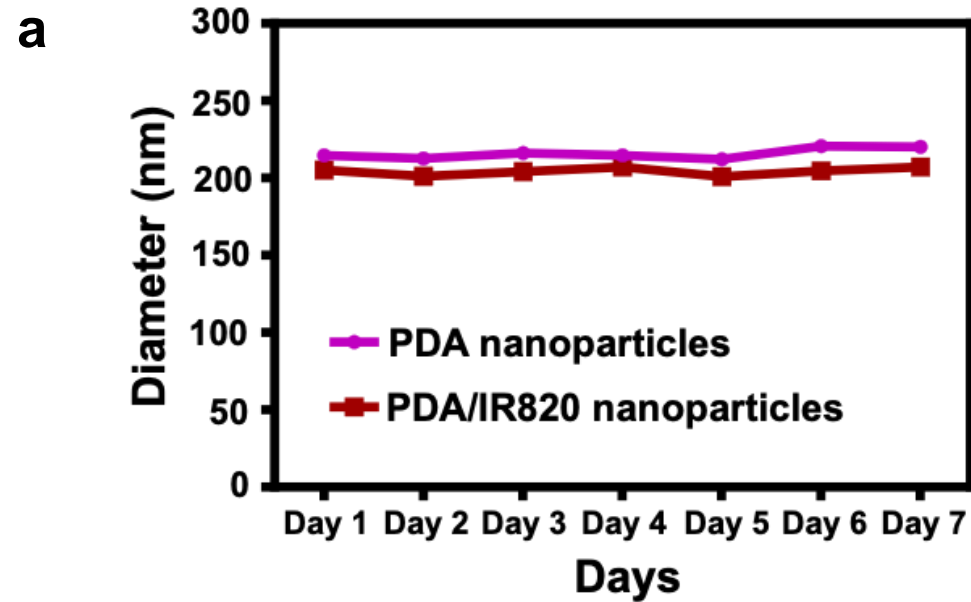


Polydopamine

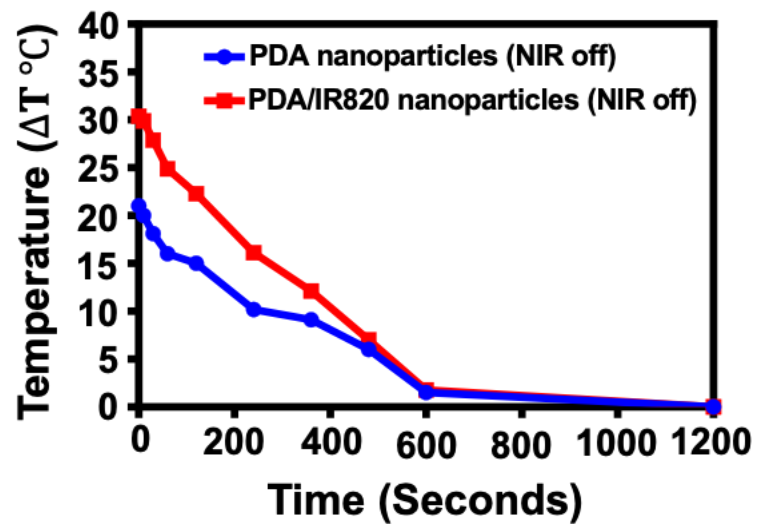
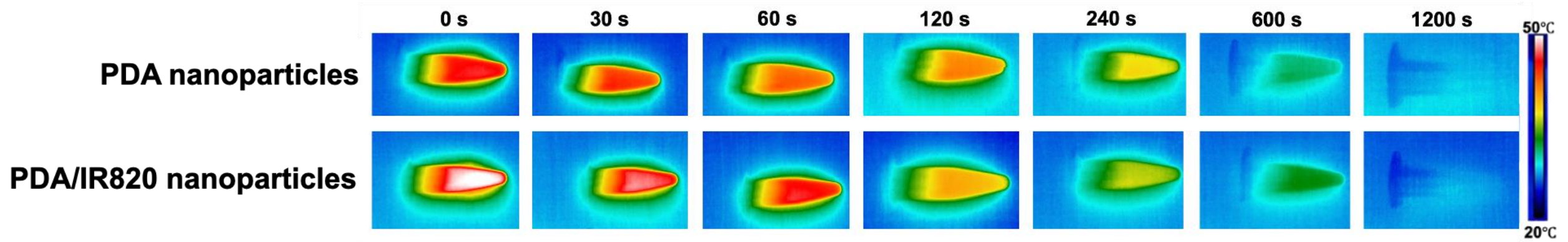
Suppl. Fig 2 (TEM image, PDA/IR820)



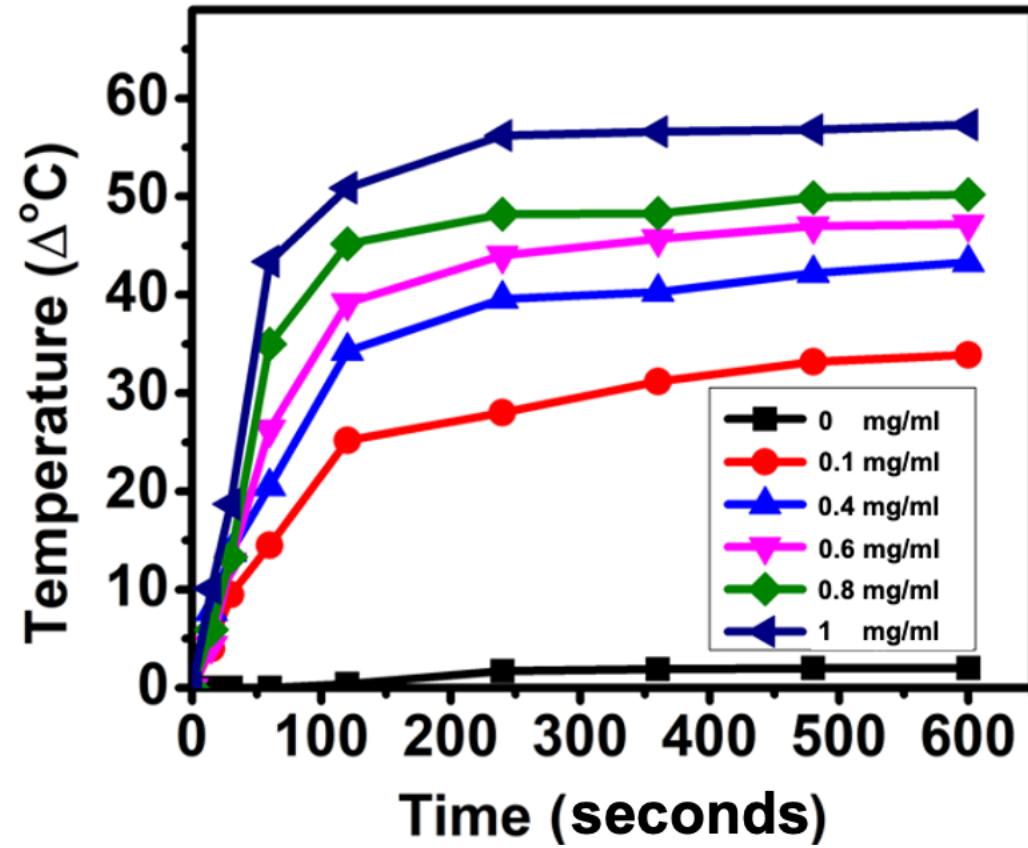
Suppl. Fig 3 (The determination of size and zeta potential of the nanoparticles at room temperature for 7 days)



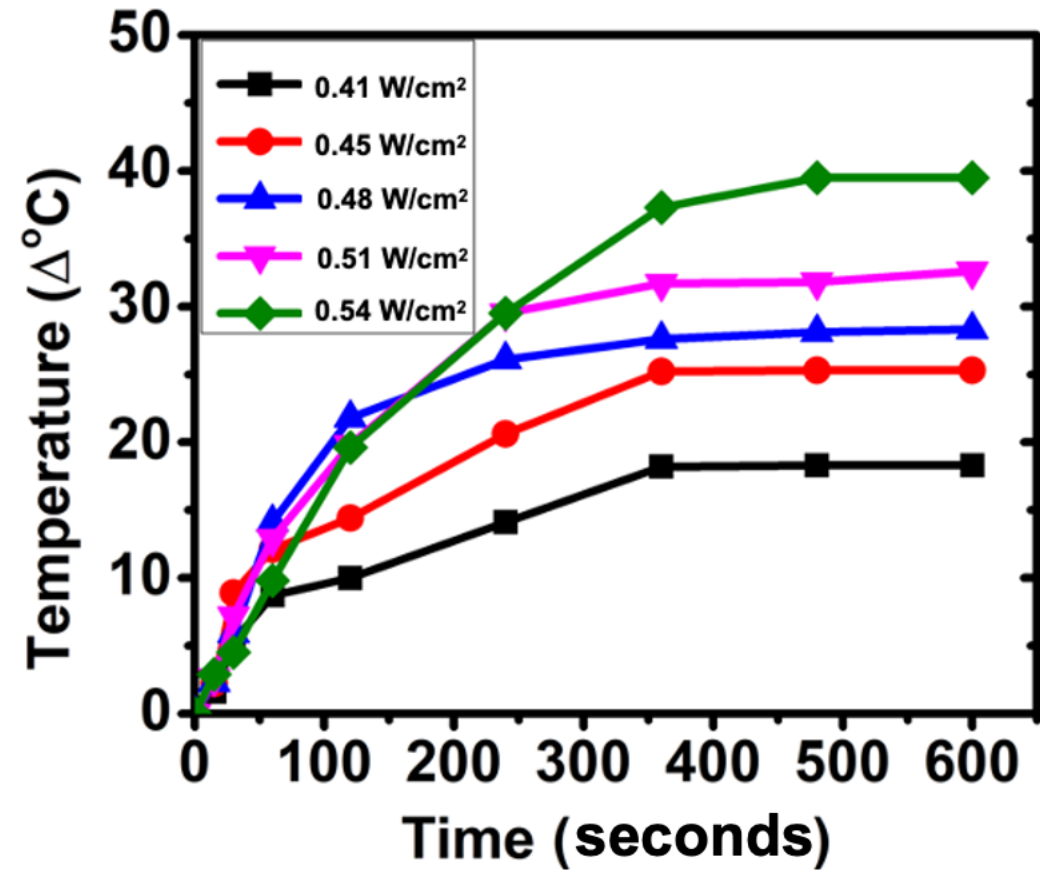
Suppl. Fig 4 (The reduction of temperature after the NIR off)



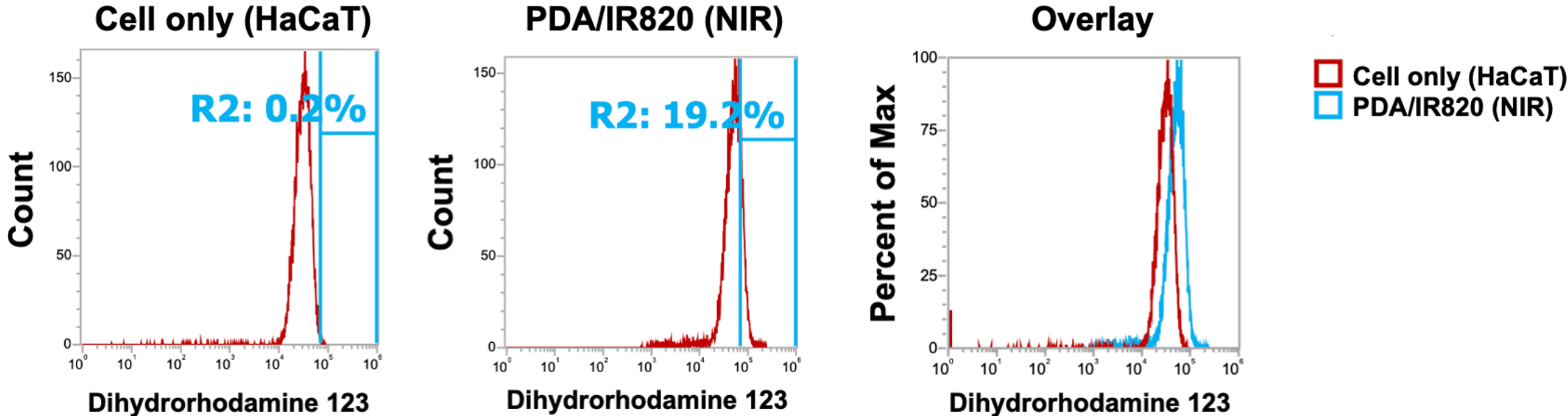
Suppl. Fig 5 (Temperature increase with respect to concentration)



Suppl. Fig 6 (Temperature increase with respect to power)

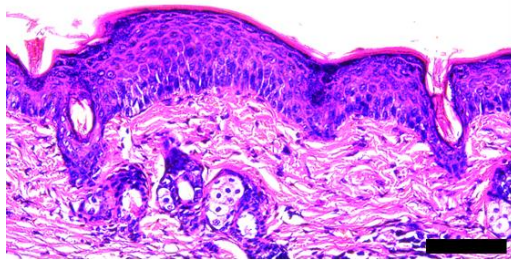


Suppl. Fig 7 (In vitro photodynamic study, Flow cytometry)

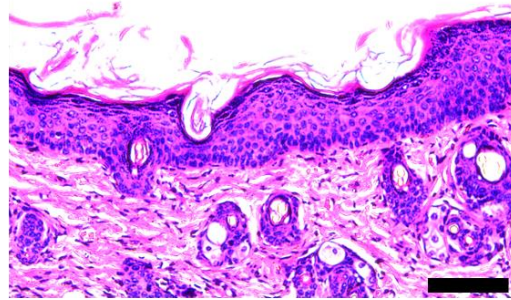


Suppl. Fig 8 (The H&E- stained psoriasiform skin section treated with PDA or IR820 alone with or without NIR)

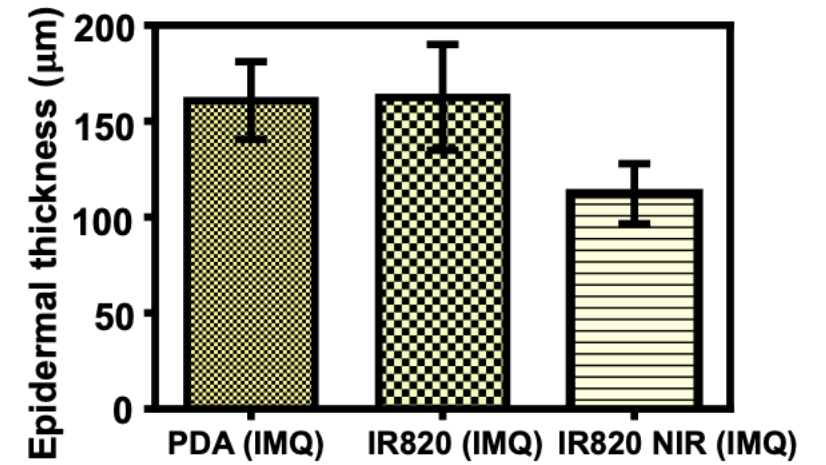
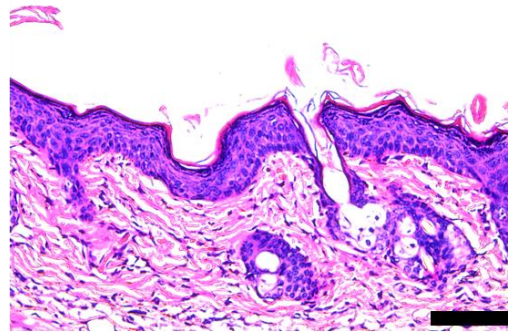
PDA (IMQ)



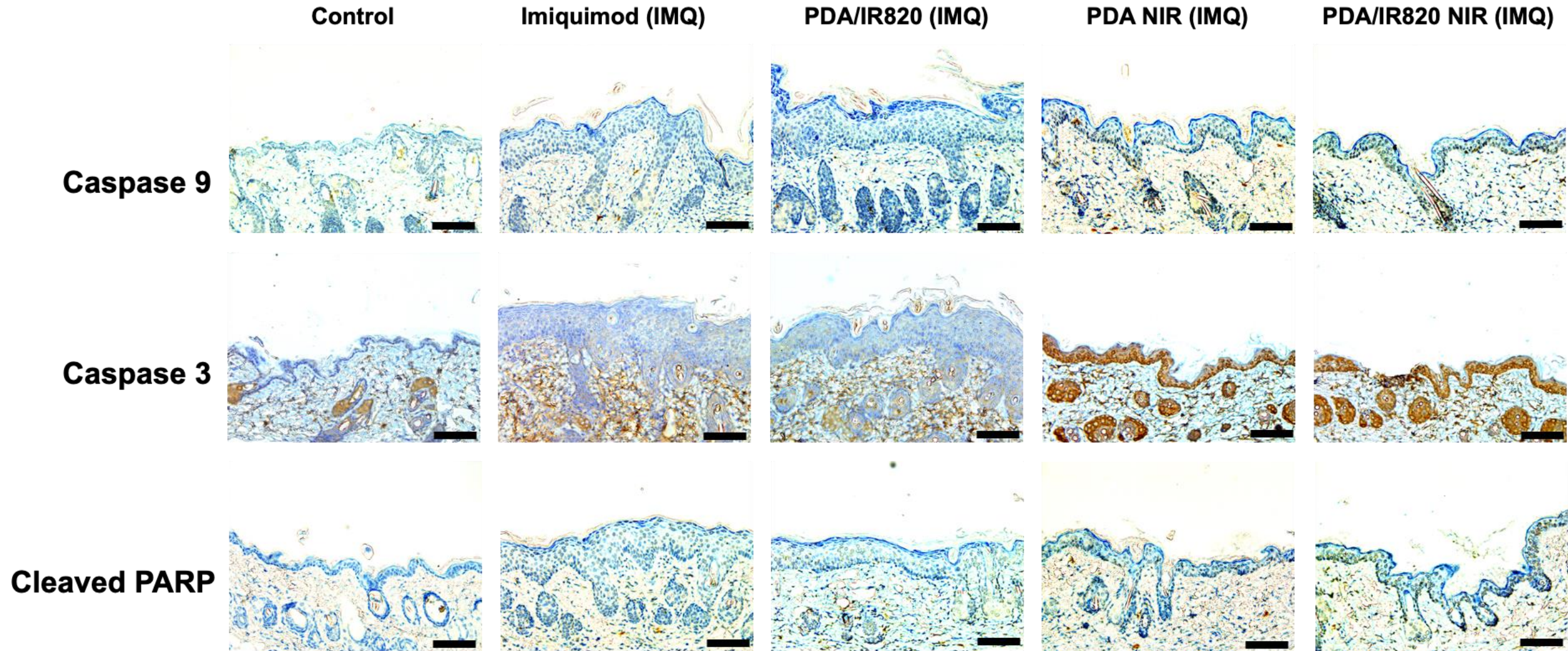
IR820 (IMQ)



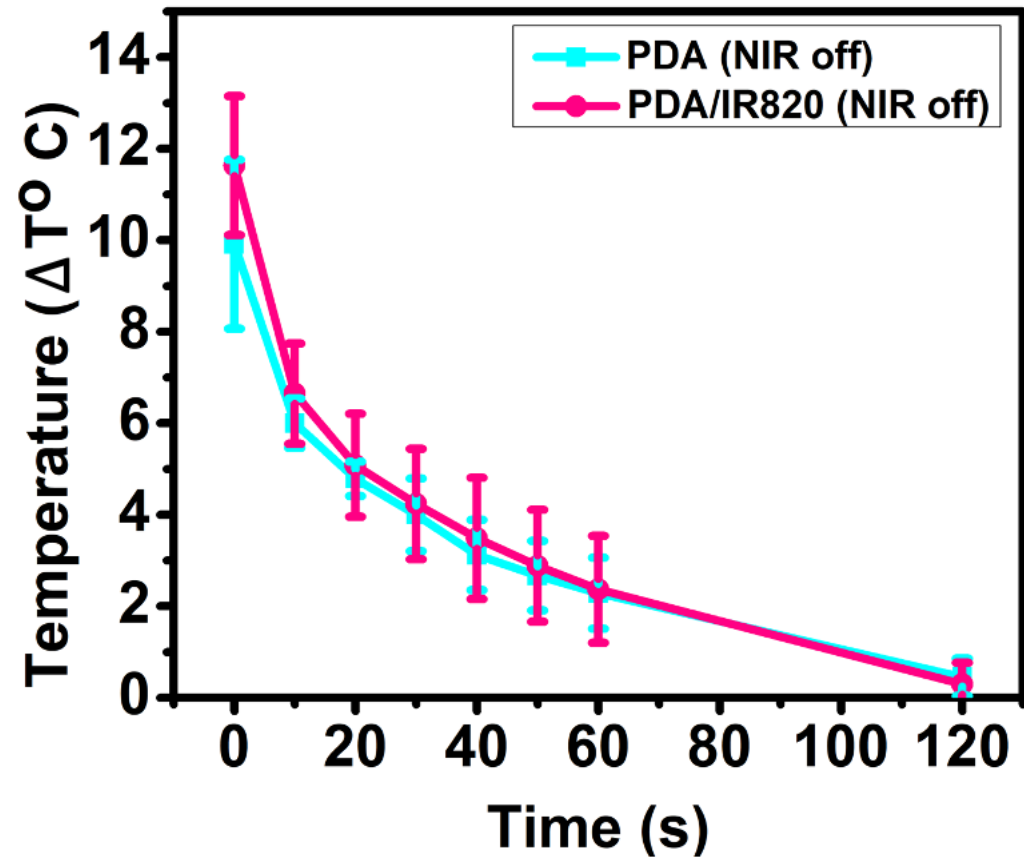
IR820 NIR (IMQ)



Suppl. Fig 9 (The immunohistochemistry of the mouse skin stained with caspase 9, caspase 3, or PARP antibody)



Suppl. Fig 10 (In vivo NIR off)



Suppl. Fig 11 (In vivo skin irritation^a test)

