Supplementary Materials

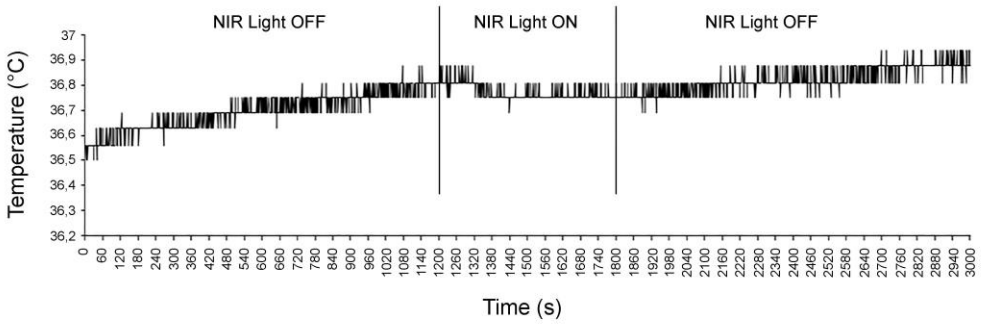

Fig. S1. Measure of real-time cell temperature fluctuation during NIR exposure. Temperature have been measured every second by a waterproof temperature sensor immersed in the cell culture medium. Temperature recording began 20 min before NIR exposure, during the 10 min exposure and continued for 20 min after the end of exposure.

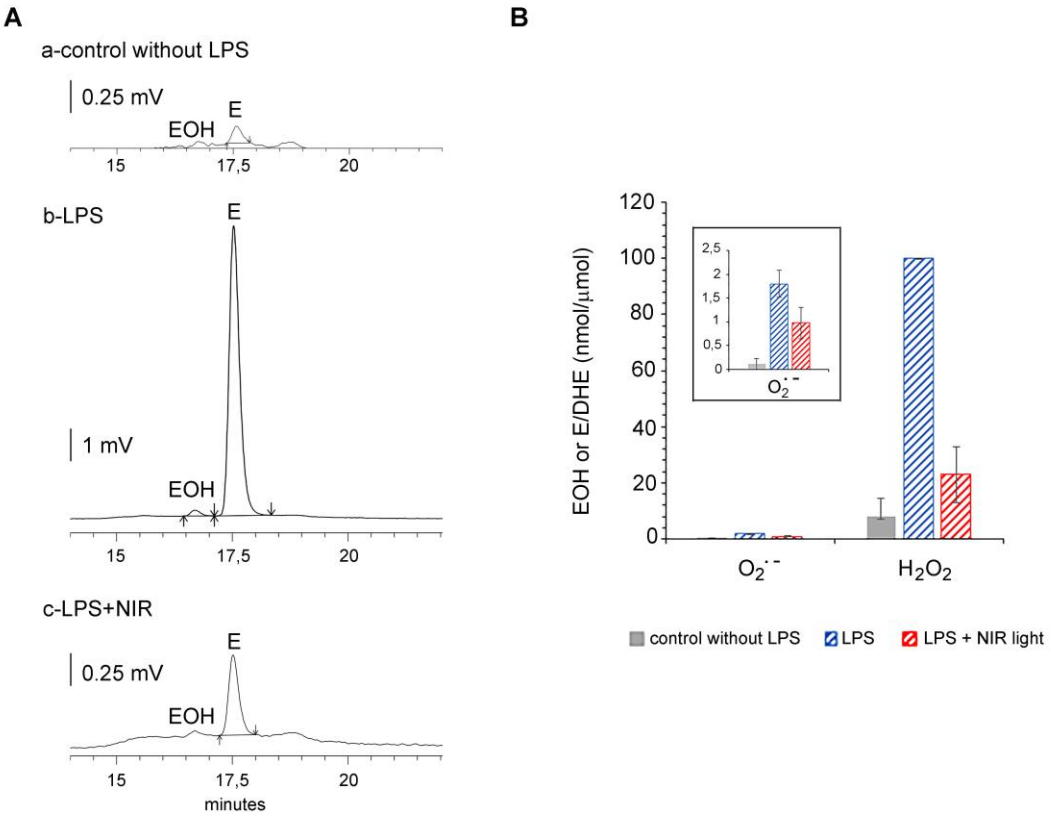

Fig. S2. HPLC analysis of ROS products after NIR light exposure. After activation by LPS for 24h and 10 min exposure to NIR light, HEK-Blue™-hTLR4 cells were maintained in PBS and incubated with 50 µM DHE for 30 min. Cells were then harvested in acetonitrile, dried, resuspended in PBS/DTPA and analyzed by HPLC. (A) representative chromatogram profiles of EOH and E (Ethidium) separation for (A-a) control, (A-b) LPS or (A-c) LPS +NIR light conditions (B) Quantification of EOH/DHE (that reflect $O_2^{\cdot -}$ concentration) and E/DHE (that reflect H_2O_2 concentration) ratio. n=3, *p < 0.1; ** p < 0.01; *** p < 0.001.

Table S1. List of primers used for quantitative real-time PCR.

Species	Genes	Gene accession number	Forward Primer 5'-3'	Reverse Primer 5'-3'
Human	**IL-6**	NM_000600.5	GGCTGCAGGACATGACAACT	ATCTGAGGTGCCCATGCTAC
	IL-8	NM_000584.4	CCACCGGAAGGAACCATCTC	GGGGTGGAAAGGTTTGGAGT
	TNF-α	NM_000594.4	CAAGGACAGCAGAGGACCAG	TGGCGTCTGAAGGTTGTTTT
	IFN-α	NM_024013.3	AGAATCACTCTCTATCTGAAAGAGAAG	TCATGATTTCTGCTCTGACAACCT
	IFN-β	NM_002176.4	CGCCGCATTGACCATCTA	GACATTAGCCAGGAGGTTCT
	IFN-γ	NM_000619.3	CTAATTATTCGGTAACTGACTTGA	ACAGTTCAGCCATCACTTGGA
	IL-10	NM_000572.3	CGCTGTCATCGATTTCTTCCCT	AGGCATTCTTCACCTGCTCCAC
	TGF-β	NM_000660.7	ACTATTGCTTCAGCTCCACGGA	AGTCAATGTACAGCTGCCGCA
	pro-IL-1β	NM_000576.3	CCTGTGGCCTTGGGCCTCAA	GGTGCTGATGTACCAGTTGGG
	CAT	NM_001752.4	ACCCTCGTGGGTTTGCAGTGA	CGAGCACGGTAGGGACAGTTCA
	GPX1	NM_000581.4	TGGGCATCAGGAGAACGCCA	GGGGTCGGTCATAAGCGCGG
	GPX3	NM_002084.5	CTGACGGGCCAGTACATTGA	TCCACCTGGTCGGACATACT
	GSR	NM_000637.5	AGGAGCTGGAGAACGCTGGC	CAATGGCCCAGAGCAGGCA
	GAPDH	NM_002046.7	TGCACCACCAACTGCTTAGC	GGCATGGACTGTGGTCATGAG