



Fig. S3. In the presence of 10 μ M forskolin, human melanocyte cells were irradiated with the indicated light-emitting diode (LED) wavelengths. Data are expressed as ratios relative to the forskolin-treated controls and presented as the mean \pm standard deviation of 3 separate experiments. * p <0.05 compared with the control. (A) Western blot analysis using anti-tyrosinase-related protein-1 (TRP-1), tyrosinase-related protein-2 (TRP-2) and microphthalmia-associated transcription factor (MITF) antibodies. β -actin was used as an internal control. (B) Results of reverse-transcriptase (RT)-PCR for the levels of the mRNA expression of tyrosinase family genes. Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) served as a reference gene. (C) Inhibitory effects of LEDs on forskolin-induced cyclic AMP (cAMP), extracellular signal-regulated kinase (ERK) and AKT levels examined by western blot analysis.