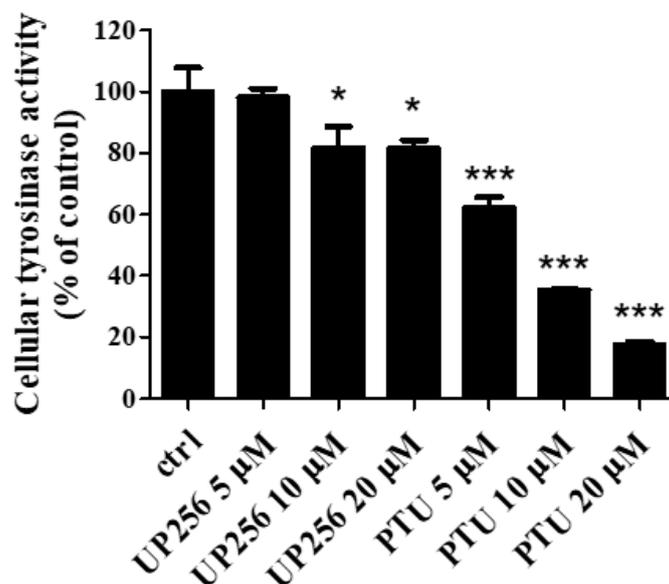




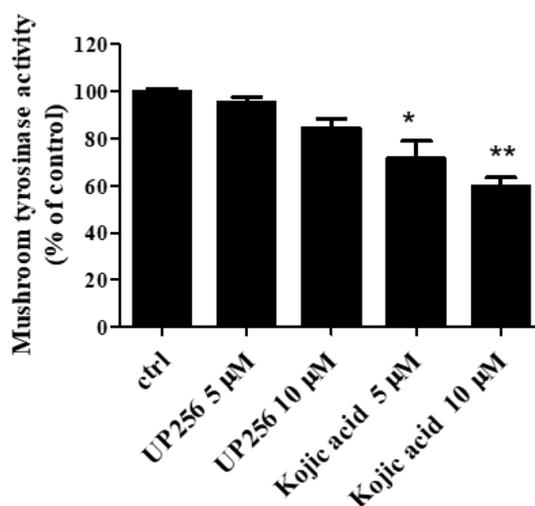
1 Supplementary:



2 **Figure S1.** Effects of UP256 on the cellular tyrosinase activity in melanocytes. after incubation,  
3 tyrosinase activity was evaluated using l-DOPA oxidation assay

4

5



6 **Figure S2.** Effects of UP256 on mushroom Tyrosinase activity. For the measurement of mushroom  
7 Tyrosinase activity, sample and L-DOPA were mixed with mushroom Tyrosinase. Kojic acid was  
8 used as a positive control.

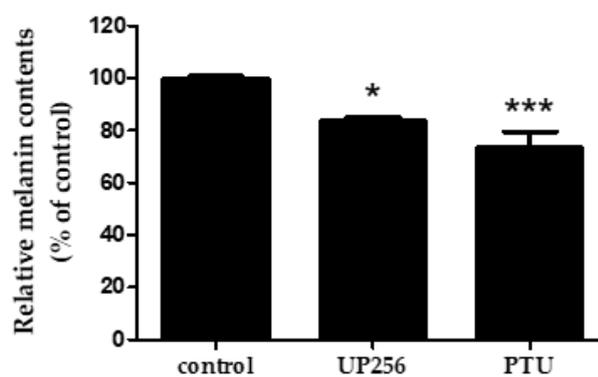
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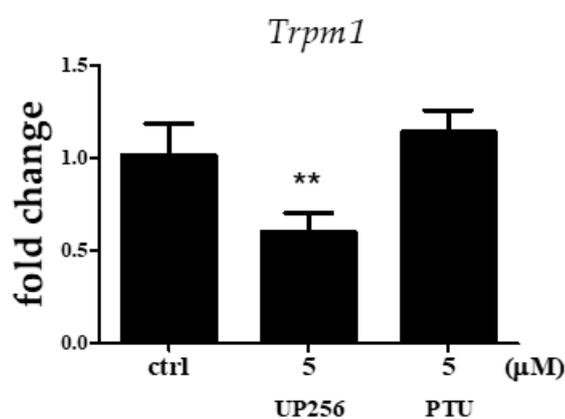
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14 **Figure S3.** Relative melanin content in the zebrafish embryos. Synchronized zebrafish embryos were  
15 treated with 30  $\mu$ M UP256 and PTU and observed under a stereomicroscope after 72 h.  
16



17  
18 **Figure S4.** Effects of UP256 on expression of *Trpm1* mRNA in melanocytes. Expression levels were  
19 calculated by quantitative real-time PCR analysis. GAPDH gene was used as internal reference gene  
20 and the  $\Delta\Delta$  CT method was used for relative quantification.  
21