Supplementary:

Figure S1. Effects of UP256 on the cellular tyrosinase activity in melanocytes. After incubation, tyrosinase activity was evaluated using L-DOPA oxidation assay.

Figure S2. Effects of UP256 on mushroom Tyrosinase activity. For the measurement of mushroom Tyrosinase activity, sample and L-DOPA were mixed with mushroom Tyrosinase. Kojic acid was used as a positive control.
Figure S3. Relative melanin content in the zebrafish embryos. Synchronized zebrafish embryos were treated with 30 µM UP256 and PTU and observed under a stereomicroscope after 72 h.

Figure S4. Effects of UP256 on expression of Trpm1 mRNA in melanocytes. Expression levels were calculated by quantitative real-time PCR analysis. GAPDH gene was used as internal reference gene and the ΔΔCT method was used for relative quantification.