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Eggplant Extract Inhibits Melanogenesis in B16 Mel

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Eggplant extract markedly inhibited melanogenesis in B16 mouse melanoma cells (B16 cells). To clarify the characteristics of the melanogenesis inhibition, an effective fraction, P1, was separated from the eggplant extract by acetone extraction, fractionation and Sephadex G-100 column chromatography. The P1 fraction of eggplant contained 63% protein, 20% neutral sugar and 11% uronic acid. P1 was stable during heating at 60°C for 30 min, and the inhibitory effect remained after digestion. P1 weakly inhibited tyrosinase activity in crude B16 cell extract. Tyrosinase activity in B16 cells cultured with P1 was reduced. The inhibitory effect of P1 on tyrosinase activity in B16 cells cultured with P1 was reduced. The inhibitory effect of P1 on tyrosinase activity in B16 cells cultured with P1 was reduced. The inhibitory effect of P1 on tyrosinase activity in B16 cells cultured with P1 was reduced.

activity in B16 cells was equal to melanogenesis suppression in B16 cells. These results show that the eggplant extract suppresses melanogenesis in B16 cells by inhibiting tyrosinase.

Keywords: [B16 melanoma cells](#), [melanogenesis](#), [eggplant](#), [tyrosinase](#)

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