

Supplementary Material

Table S1. Effect of compounds on tyrosinase activity of B16F10 cells stimulated by α -MSH.

Compounds	Concentration (μ M)				
	700	350	175	87.5	43.8
Kojic acid	71 \pm 7	79 \pm 5	85 \pm 5	88 \pm 3	90 \pm 6
α -arbutin	86 \pm 5	93 \pm 5	90 \pm 5	88 \pm 4	91 \pm 4
β -arbutin	56 \pm 2	70 \pm 6	76 \pm 2	79 \pm 4	83 \pm 7
deoxyarbutin	3 \pm 1	3 \pm 1	8 \pm 1	17 \pm 2	40 \pm 2

Note: The tyrosinase activity was calculated as a percentage of the control 2. Tyrosinase activity of blank group (control 1) and control group (control 2) was 56 \pm 7% and 100%, respectively.

Table S2. Effect of compounds on melanin content of B16F10 cells stimulated by α -MSH.

Compounds	Concentration (μ M)				
	700	350	175	87.5	43.8
Kojic acid	69 \pm 7	79 \pm 9	84 \pm 7	95 \pm 10	94 \pm 5
α -arbutin	81 \pm 3	87 \pm 5	92 \pm 3	91 \pm 5	95 \pm 11
β -arbutin	59 \pm 8	63 \pm 1	67 \pm 5	75 \pm 1	87 \pm 7
deoxyarbutin	18 \pm 2	23 \pm 2	37 \pm 3	46 \pm 2	67 \pm 7

Note: The melanin content was calculated as a percentage of the control 2. Melanin content of control 1 and control 2 was 78 \pm 8% and 100%, respectively.

Table S3. Effect of compounds on cell viability of B16F10 cells.

Compounds	Concentration (μ M)				
	700	350	175	87.5	43.8
Kojic acid	111 \pm 4	105 \pm 4	105 \pm 4	108 \pm 7	112 \pm 4
α -arbutin	145 \pm 14	127 \pm 10	118 \pm 8	113 \pm 7	108 \pm 5
β -arbutin	195 \pm 20	166 \pm 13	141 \pm 10	124 \pm 8	115 \pm 5
deoxyarbutin	30 \pm 1	66 \pm 4	68 \pm 6	71 \pm 8	128 \pm 14

Note: The cell viability was calculated as a percentage of the control (no compound treated group).