Supplementary Materials

Mung Bean Seed Coat Extract Promotes Diabetic Wound Healing in High-Glucose-Exposed HaCaT Keratinocytes

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Supplementary Table

Table S1: Effect of mung bean seed coat extracts (EE, AE, LMW, and CP) on wound area (μm²) and % wound closure of the high glucose-exposed HaCaT wounds.

Treatment	Wound area (μm²)					% wound closure*			
	0 h	12 h	24 h	36 h	48 h	12 h	24 h	36 h	48 h
HG (40 mM glucose)	280167±42609	223207±32865	211897±30631	204900±27811	173720±32116	20.3±1.4^{a}	24.3±2.0^{b}	26.7±1.4^{b}	38.2±2.4^{c}
NG (25 mM glucose)	262517±26975	193294±26728	156990±22824	136529±36979	101718±20635	26.5±2.5 ^{a}	40.4±2.6 ^{b}	48.6±8.4 ^{b}	61.5±4.2 ^{c}
25 μM Berberine	458822±383234	331465±263241	286490±219046	278061±216619	260996±186454	26.1±5.4 ^{a}	35.1±5.4 ^{a}	37.5±7.6 ^{a}	39.3±7.8 ^{a}
5% FBS	281740±31457	197871±24548	21510±5237	0±0	0±0	29.8±1.0 ^{a}	92.4±1.1 ^{b}	100.0±0.0 ^{c}	100.0±0.0 ^{c}
LMW 50 μg/mL	289462±37351	227122±41880	215118±50932	187238±46018	152399±33626	21.9±4.8 ^{a}	26.4±8.9 ^{a}	35.9±8.9 ^{a,b}	47.3±9.3 ^{b}
LMW 100 μg/mL	223321±12767	169548±9624	134973±7150	134268±14912	118598±5186	23.9±7.0 ^{a}	39.5±1.4 ^{b}	39.8±6.8 ^{b}	46.7±5.5 ^{b}
EE 50 μg/mL	267333±30231	206108±28791	186316±29485	162253±21453	142819±23326	23.0±2.9 ^{a}	30.5±3.8 ^{a,b}	39.3±4.8 ^{b,c}	46.7±4.3 ^{c}
EE 100 μg/mL	295971±35984	210860±26982	159539±25545	140690±18601	121391±17019	28.8±0.7 ^{a}	46.3±2.1 ^{b}	52.5±2.1 ^{c}	59.0±1.0 ^{d}
AE 50 μg/mL	285093±44490	228323±48240	210544±40409	194919±30227	185820±26468	20.4±5.0 ^{a}	26.4±3.0 ^{a,b}	31.6±1.5 ^{b,c}	34.7±1.0 ^{c}
AE 100 μg/mL	239971±22249	188039±19227	172259±17581	151745±13836	139671±8986	21.7±1.3 ^{a}	28.2±4.5 ^{a}	36.7±2.0 ^{b}	41.6±3.7 ^{b}
CPE 50 μg/mL	266119±4886	217236±5682	197271±11255	189916±4738	178484±10657	18.4±1.2 ^{a}	25.9±3.0 ^{b}	28.6±1.0 ^{b,c}	33.0±3.2 ^{c}
CPE 100 μg/mL	281877±13333	221889±18012	192535±19626	185303±15709	171868±19286	22.7±1.7 ^{a}	33.7±1.9 ^{b}	36.6±2.3 ^{b}	41.5±1.3 ^{c}

Data are presented as mean ± S.D., *% wound closure was statistically compared within the same group. Different letters indicate significant differences % wound healing between exposure time in each treatment at $p < 0.05$ by Tukey's multiple comparison test ($n = 3$).

Supplementary Figure

Figure S1. % Wound closure of HG-exposed HaCaT wound by 100 µg/mL MBSC extracts at 48 h

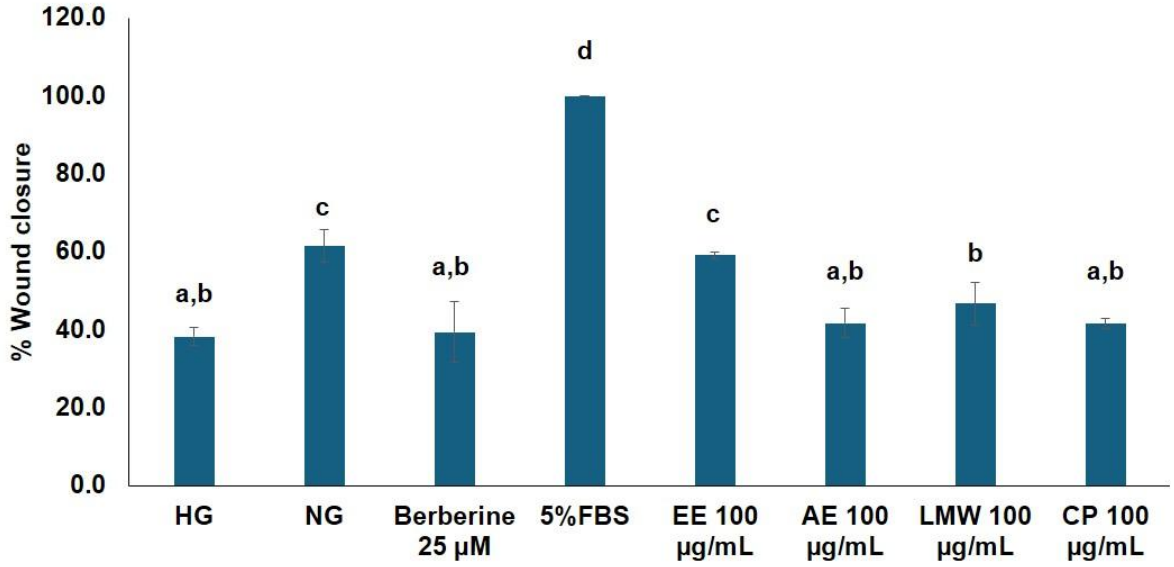

Figure S1. % Wound closure of HG-exposed HaCaT wound by 100 µg/mL MBSC extracts at 48 h:

(HG: untreated-high glucose-exposed HaCaT wound; NG: untreated normal-glucose-exposed HaCaT wound. Data are expressed as the mean ± SD. $^{*}P < 0.05$, different letters indicate significant differences between groups at $p < 0.05$ by Tukey's multiple comparison test ($n = 3$).