

Supplementary information

Table S1. Effect of EE50 on fasting blood glucose in STZ-induced rats at 1st and 7th week^a

	1 st week blood glucose (mg/dL)	7 th week blood glucose (mg/dL)
Control	77 ± 2	77 ± 3
EE50 (1.0 g/Kg b.w.)	82 ± 6	74 ± 4
STZ	425 ± 44 [#]	546 ± 31 [#]
STZ + AP (10 mg/Kg b.w.)	433 ± 38	497 ± 39
STZ + EE50 (0.25 g/Kg b.w.)	458 ± 69	548 ± 23
STZ + EE50 (0.5 g/Kg b.w.)	430 ± 58	431 ± 60
STZ + EE50 (1.0 g/Kg b.w.)	471 ± 35	474 ± 46

^aThe male SD-rats were induced experimental diabetes through intraperitoneal injection of STZ (65 mg/Kg b.w.).

Results are expressed as mean ± SEM from at least 5 rats. #, indicates significantly different from control group ($p < 0.05$) using Dunnett's test.

Table S2. Effect of EE50 on serum lipid profile in STZ-induced rats^a

	TG (mg/dL)	TC (mg/dL)	HDL (mg/dL)	VLDL (mg/dL)	LDL (mg/dL)	TC/HDL ratio	LDL/HDL ratio
Control	30 ± 4	27 ± 2	22 ± 2	3.0 ± 0.2	1.5 ± 0.1	1.2 ± 0.0	0.08 ± 0.01
EE50 (1.0 g/Kg b.w.)	30 ± 3	25 ± 2	21 ± 2	2.8 ± 0.3	1.5 ± 0.1	1.2 ± 0.0	0.08 ± 0.01
STZ	63 ± 13 [#]	34 ± 4	20 ± 3	5.1 ± 0.6 [#]	2.5 ± 0.3 [#]	1.5 ± 0.1 [#]	0.13 ± 0.02 [#]
STZ + AP (10 mg/Kg b.w.)	58 ± 25	26 ± 6	16 ± 4	5.0 ± 1.2	1.9 ± 0.4	1.4 ± 0.0	0.10 ± 0.01
STZ + EE50 (0.25 g/Kg b.w.)	52 ± 8	29 ± 4	18 ± 2	5.2 ± 0.3	3.8 ± 1.0	1.6 ± 0.1	0.20 ± 0.06
STZ + EE50 (0.5 g/Kg b.w.)	39 ± 6	39 ± 4	22 ± 3	6.4 ± 1.5	1.9 ± 0.3	1.4 ± 0.0	0.12 ± 0.02
STZ + EE50 (1.0 g/Kg b.w.)	58 ± 13	40 ± 3	24 ± 2	8.4 ± 0.8 [*]	2.7 ± 0.3	1.4 ± 0.0	0.11 ± 0.02

^aThe male SD-rats were induced experimental diabetes through intraperitoneal injection of STZ (65 mg/Kg b.w.). Results are expressed as mean ± SEM from at least 5 rats. #, indicates significantly different from control group ($p < 0.05$); *, indicates significantly different from STZ group ($p < 0.05$) using Dunnett's test.

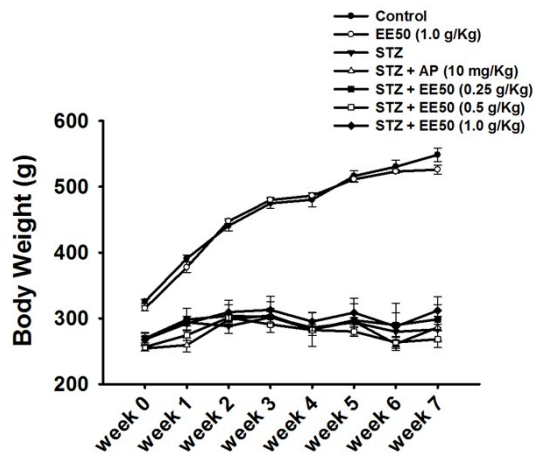
Table S3. Histological injury score of kidney under EE50 in STZ-induced rats^a

^a The male SD-rats were induced experimental diabetes through intraperitoneal injection of STZ (65 mg/Kg b.w.).

	Injury of score ^b	
	Hydropic degeneration	Hyperplasia
Control	0.0 ± 0.0	0.0 ± 0.0
EE50 (1 g/Kg b.w.)	0.0 ± 0.0	0.0 ± 0.0
STZ	3.4 ± 0.3 [#]	2.0 ± 0.0 [#]
STZ + AP (10 mg/Kg b.w.)	3.0 ± 0.3	1.5 ± 0.6
STZ + EE50 (0.25 g/Kg b.w.)	3.3 ± 0.5	2.0 ± 0.0
STZ + EE50 (0.5 g/Kg b.w.)	3.0 ± 0.4	1.6 ± 0.5
STZ + EE50 (1 g/Kg b.w.)	3.4 ± 0.3	1.7 ± 0.4

^bKidney was scored for kidney injury via light microscopy with score 0= No significant lesion; 1 = minimal (< 1%); 2 = slight (1-25%); 3 = moderate (26-50%); 4 =moderate/severe (51-75%); 5 = severe/high (76-100%). Results are expressed as mean ± SEM from at least 5 rats. #, indicates significantly different from control group ($p < 0.05$) using Dunnett's test.

(A)



(B)

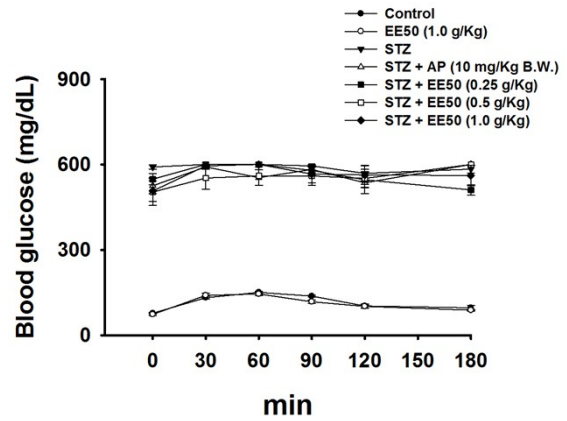


Figure S1. Effect of EE50 on (A) body weight and (B) oral glucose tolerance test (OGTT) in STZ-induced rats. The male SD-rats were induced experimental diabetes by intraperitoneal injection of STZ (65 mg/Kg b.w.). Body weight was recorded weekly during 7 weeks experimental period. Results are expressed as mean \pm SEM from at least 5 rats.