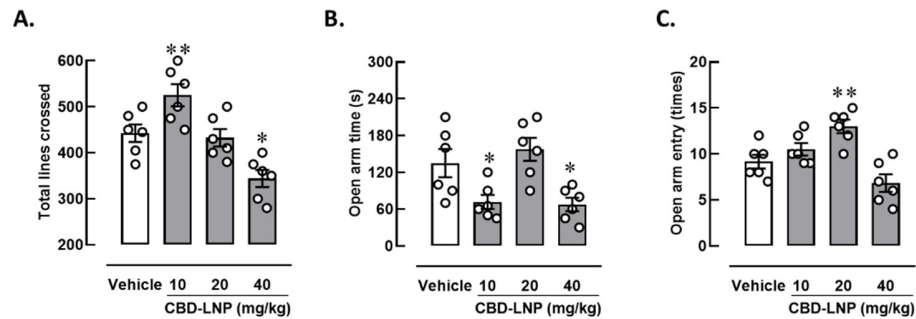


Supplemental data



Supplementary Figure S1. Effects of CBD-LNP on locomotor activity and anxiety-like behaviors in normal male rats. (A) Number of total line crossed in the open filed test (B) open arm entry and (C) open arm time in the elevated-plus maze. Data are presented as mean \pm SEM (n=6 rats/group). * $P < 0.05$, ** $P < 0.01$ compared to vehicle-treated control group.

Supplementary Table S1. Metabolic parameters at baseline and after diabetic induction

Metabolic parameters	Control group			Diabetic group		
	Baseline	Fed normal food diet	0.01 M sodium citrate injection	Baseline	Pre-treatment with high fat diet	STZ injection
	9-week-old	10-week-old	11-week-old	9-week-old	10-week-old	11-week-old
Body weight (g)	228.00 \pm 4.01	250.75 \pm 5.10	283.63 \pm 2.21	231.13 \pm 3.56	263.50 \pm 6.86	300.00 \pm 4.33**
Triglycerides (mg/dL)	89.88 \pm 2.97	89.13 \pm 4.65	90.88 \pm 2.84	88.13 \pm 3.89	90.00 \pm 2.84	124.00 \pm 6.74***
Total cholesterol (mg/dL)	74.38 \pm 3.95	76.88 \pm 4.00	79.13 \pm 3.02	75.00 \pm 2.67	77.25 \pm 3.42	139.38 \pm 16.41**
Fasting blood glucose (mg/dL)	98.75 \pm 3.98	105.63 \pm 2.49	107.50 \pm 5.26	98.13 \pm 2.49	106.88 \pm 3.89	243.38 \pm 17.97***
Insulin (μ U/L)	29.23 \pm 1.01	29.60 \pm 1.07	29.35 \pm 0.98	29.12 \pm 1.06	29.15 \pm 1.68	22.22 \pm 1.99**
HOMA-IR index	7.35 \pm 0.42	7.50 \pm 0.36	7.38 \pm 0.34	7.44 \pm 0.27	7.68 \pm 0.56	12.59 \pm 1.25***
HOMA- β index	284.13 \pm 18.89	281.69 \pm 24.01	283.60 \pm 24.64	282.74 \pm 22.53	246.69 \pm 15.10	51.05 \pm 6.65***

Data are presented as mean \pm SEM (n=8 rats/group). HOMA-IR (Homeostatic Model Assessment for insulin resistance), HOMA- β (Homeostatic Model Assessment estimates steady state beta cell function). ** $P < 0.01$, *** < 0.001 compared to baseline.