Table S1. Food intake of mice fed control diet (CD) or high fat diet (HFD) supplemented with indicated doses of Dechlorane Plus (DP). Results from 8 male mice per treatment group are tabulated as mean ± S.E.M.

	food intake (Kcal/mouse/day)	
	CD	HFD
0 μg/Kg DP	9.23 ± 0.136	10.0 ± 0.305
10 μg/Kg DP	9.24 ± 0.165	9.97 ± 0.348
100 μg/Kg DP	9.32 ± 0.187	10.1 ± 0.380
1000 μg/Kg DP	9.48 ± 0.166	10.3 ± 0.295

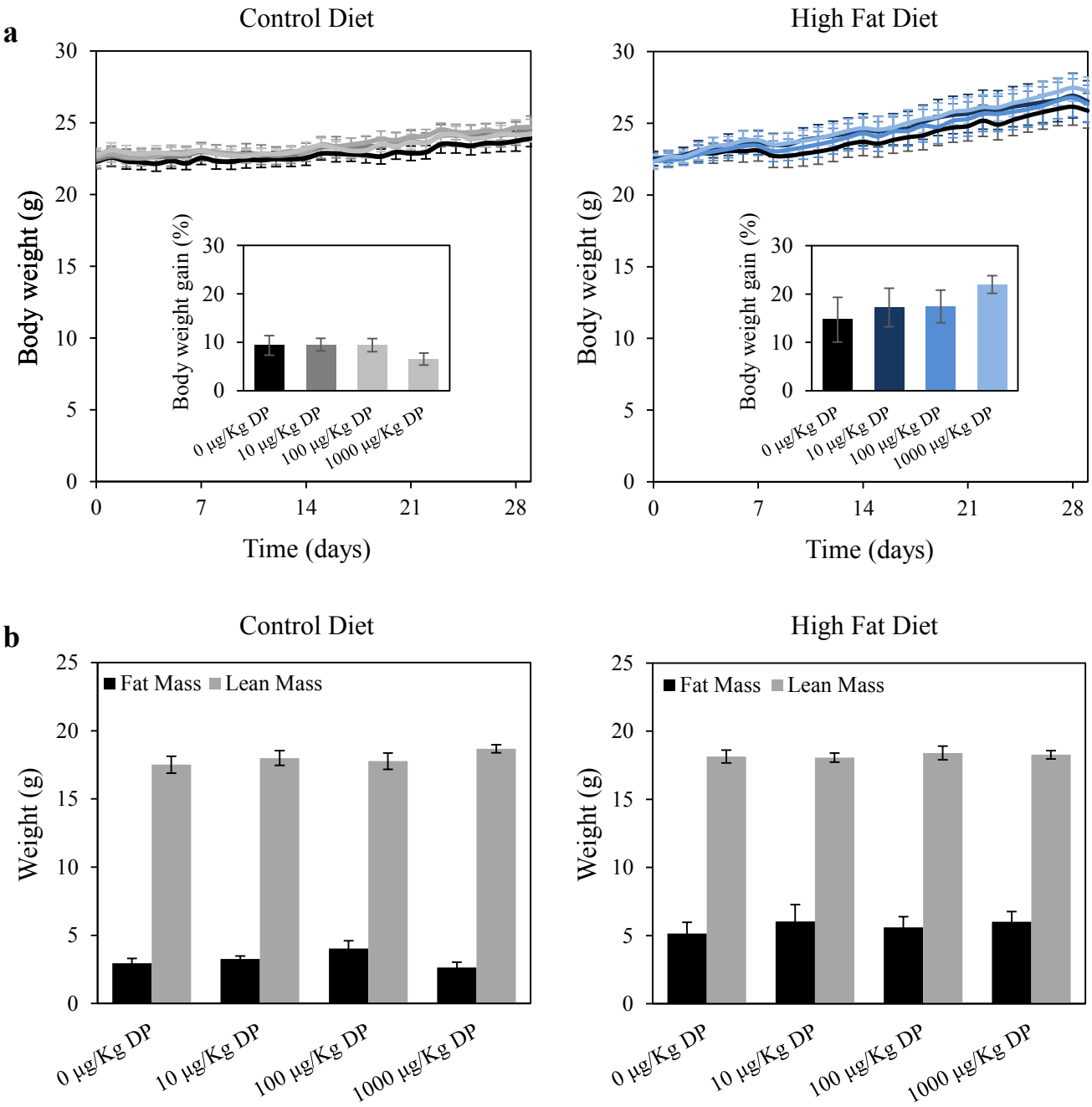

Figure S1. DP had no effect on body weight and fat/lean mass. **a**, body weight of mice given DP and fed Control Diet (CD) or High Fat Diet (HFD) over 28 days. **b**, MRI measurements of fat and lean mass at day 28.

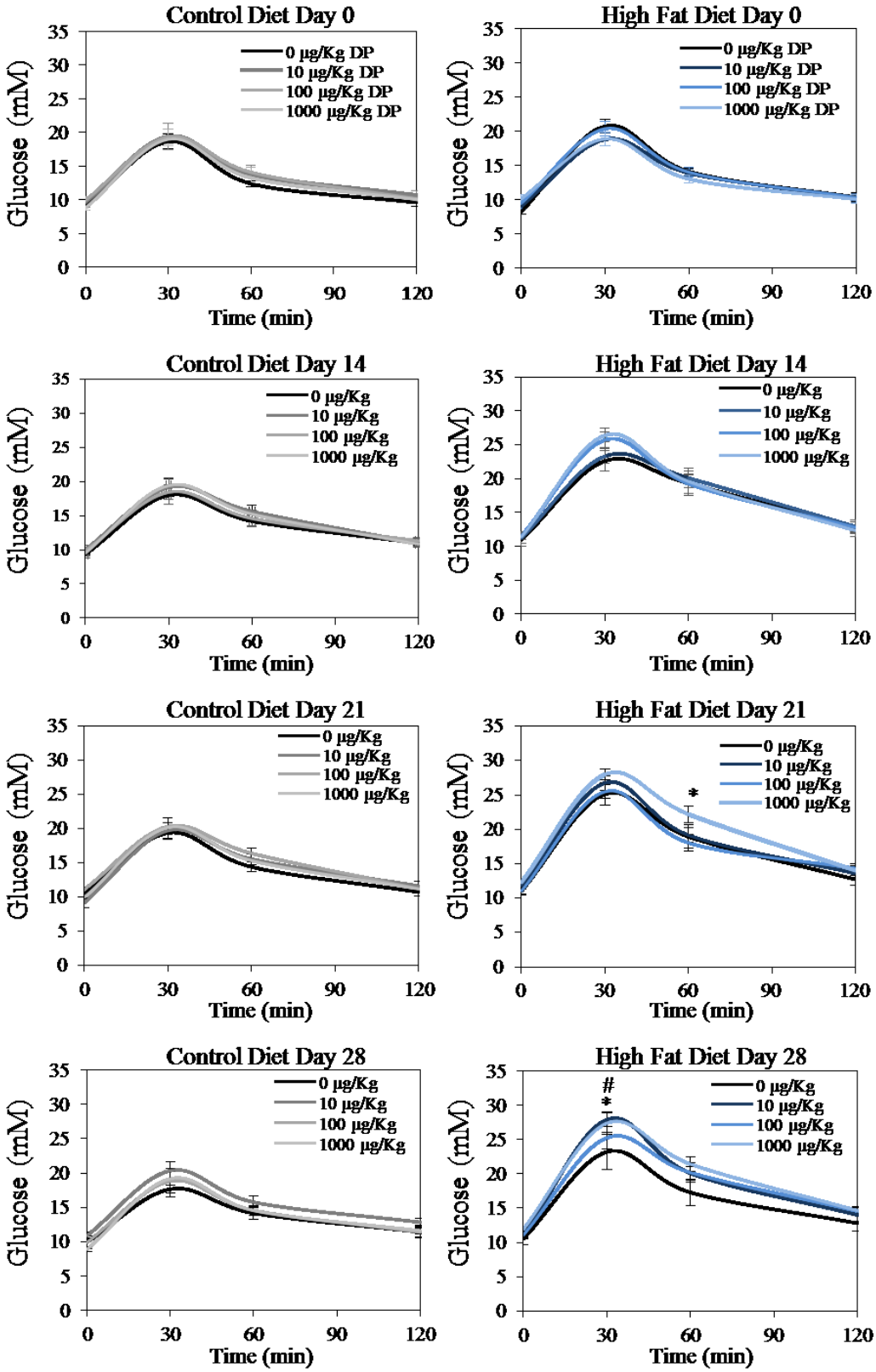

Figure S2. Glucose tolerance test (GTT) for mice fed Control Diet or High Fat Diet supplemented with indicated concentrations of Dechlorane Plus (DP) in corn oil at days 0, 14, 21, and 28 of the study.

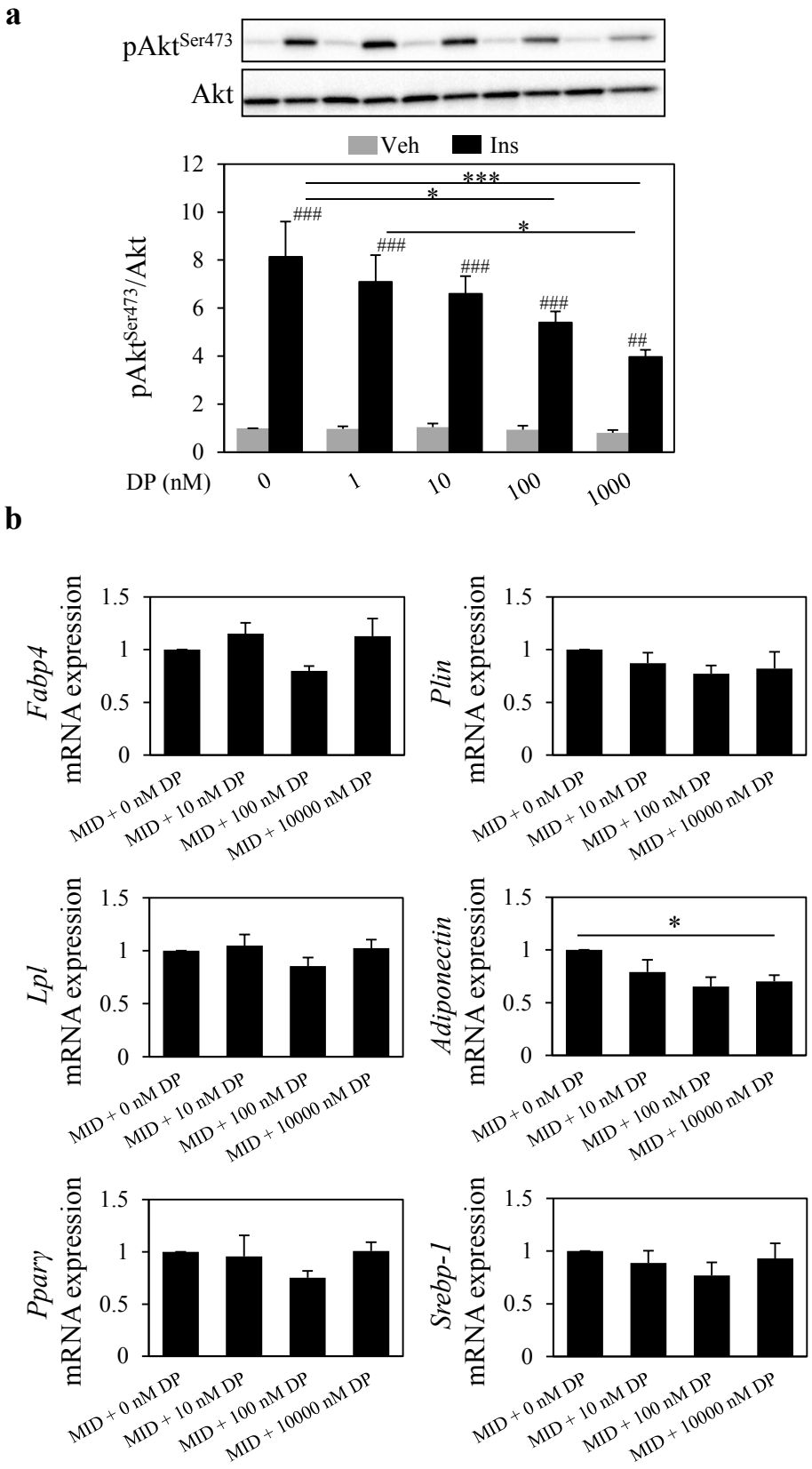

Figure S3. DP inhibits insulin signaling but does not affect adipogenesis in 3T3-L1 cultures. **a,** Confluent murine 3T3-L1 preadipocytes were treated with DP or solvent (DMSO) control. After 48 hours, cellular proteins were extracted and equal amounts of solubilized cellular proteins were separated by SDS-PAGE and immunoblotted with antibodies against indicated target. Densitometric data from 4 separate experiments, normalized to basal Akt, are graphically presented as means ± S.E.M. *denotes $p<0.05$, ** denotes $p<0.01$, and *** denotes $p<0.001$ between indicated pairs as assessed by two-way ANOVA with Tukey's post-hoc tests. **b,** After 6 days of differentiation, total RNA was extracted from homogenized samples and the expression levels of indicated adipogenic markers were quantified by real-time qPCR. Levels were normalized to endogenous *β-actin*, and expressed as fold over MID + 0 DP nM samples. Results from 4 mice per treatment group are graphically represented as mean ± S.E.M. * denotes $p<0.05$, as assessed by one-way ANOVA with Tukey post-hoc tests.

Figure S3

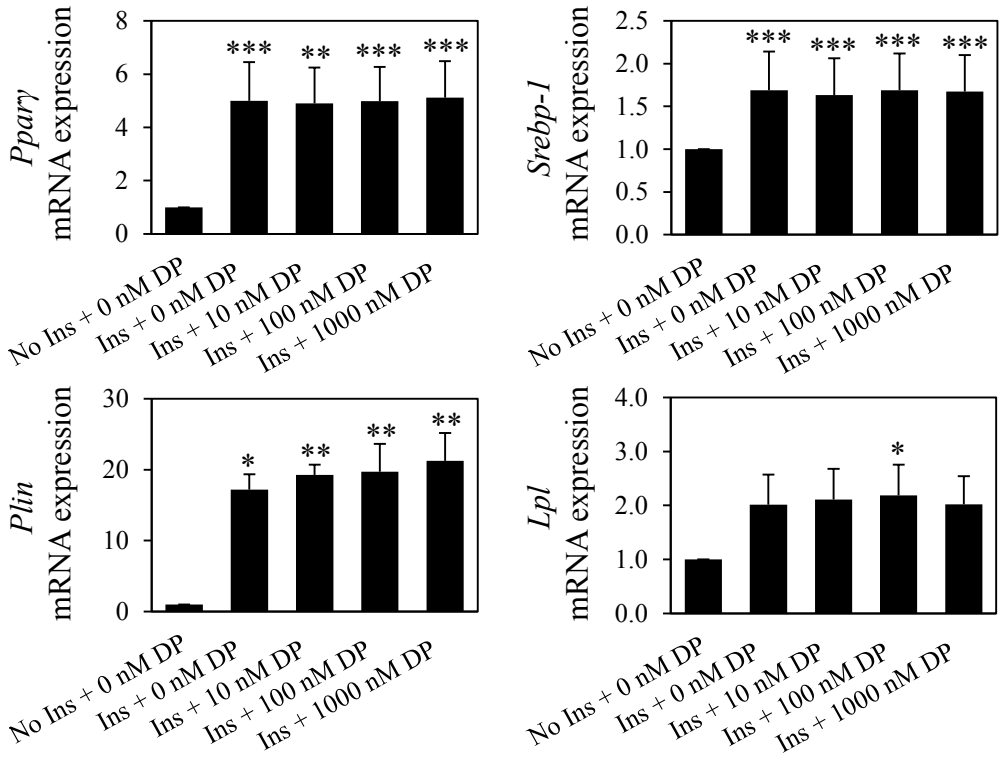

Figure S4. DP treatment has no effect on the mRNA expression of adipogenic markers downstream of insulin signaling. Confluent murine 3T3-L1 preadipocytes were treated with DP or solvent (DMSO) control. After 48 hours, cultures were treated with indicated treatments for 6 days. Total RNA was extracted from homogenized samples and the expression levels of indicated adipogenic markers were quantified by real-time qPCR. Levels were normalized to endogenous *β-actin*, and expressed as fold over No Ins + 0 DP nM samples. Results from 4 mice per treatment group are graphically represented as mean ± S.E.M. * denotes $p<0.05$, ** denotes $p<0.01$, and *** denotes $p<0.001$ as assessed by one-way ANOVA with Tukey post-hoc tests.

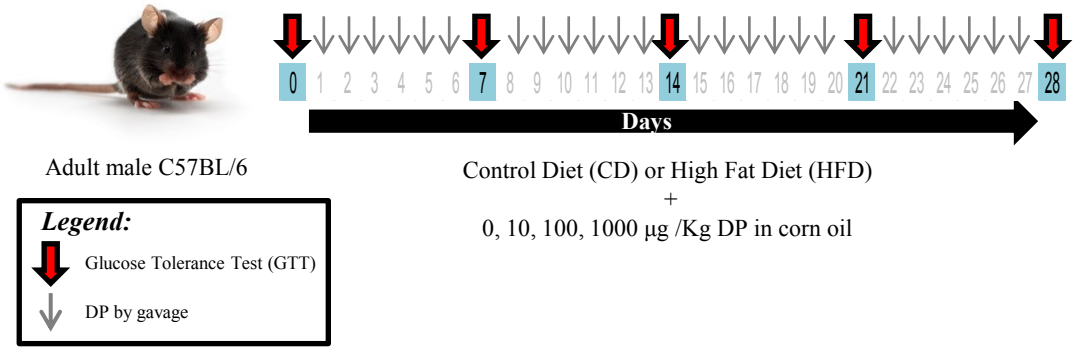

Figure S6. Animal study design.

Table S2. Animal study Control Diet (CD) and High Fat Diet (HFD) composition.

	g/Kg	
Formula	**CD**	**HFD**
Casein	210	265
L-Cystine	3.00	4.00
Corn Starch	465	-
Maltodextrin	100	160
Sucrose	90.0	90.0
Lard	20.0	310
Soybean Oil	20.0	30.0
Cellulose	37.2	65.5
Mineral Mix, AIN-93G-MX (94046)	35.0	48.0
Calcium Phosphate, dibasic	2.00	3.40
Vitamin Mix, AIN-93-VX (94047)	15.0	21.0
Choline Bitartrate	2.75	3.00

Table S3. Primer sequences used for real-time qPCR analysis.

Target	Primer	Sequence
Pparγ	Forward	5'-GCCTGCGGAAGCCCTTTGGT-3'
	Reverse	5'-GCAGTTCCAGGGCCTGCAGC-3'
Fabp4	Forward	5'-GGAAGCTTGTCTCCAGTGAA-3'
	Reverse	5'-GCGGTGATTTCATCGAATTC-3'
Lpl	Forward	5'-CAGGATGTGGCCCGGTTTAT-3'
	Reverse	5'-CGGGGCTTCTGCATACTCAA-3'
Plin	Forward	5'--TTGGGGATGGCCAAAGAGAC-3'
	Reverse	5‘-CTCACAAGGCTTGGTTTGGC-3'
Srebp1	Forward	5'-CTTTTCCTTAAGGTGGGCCT-3'
	Reverse	5‘-AGCTGGAGCATGTCTTCGAT-3'
β-actin	Forward	5'- GACTTCGAGCAAGAGATGGC-3'
	Reverse	5'- CCAGACAGCACTGTGTTGGC-3'
Ucp1	Forward	5'-TGGAAAGGGACGACCCCTAAT-3'
	Reverse	5‘-ACAGTAAATGGCAGGGGACG-3'
Mcp1*	Forward	5'-TTAAAAACCTGGATCGGAACCAA-3'
	Reverse	5'- GCATTAGCTTCAGATTTACGGGT-3'
Adiponectin	Forward	5'- TGACGACACCAAAAGGGCTC-3'
	Reverse	5'- CACAAGTTCCCTTGGGTGGA-3'

* Primer set was used from (Pamir, N., McMillen, T.S., Edgel, K.A., Kim, F. and LeBoeuf, R.C., 2012)