

Figure S1: Inhibitory activity of CTD-002 on CTSD activity

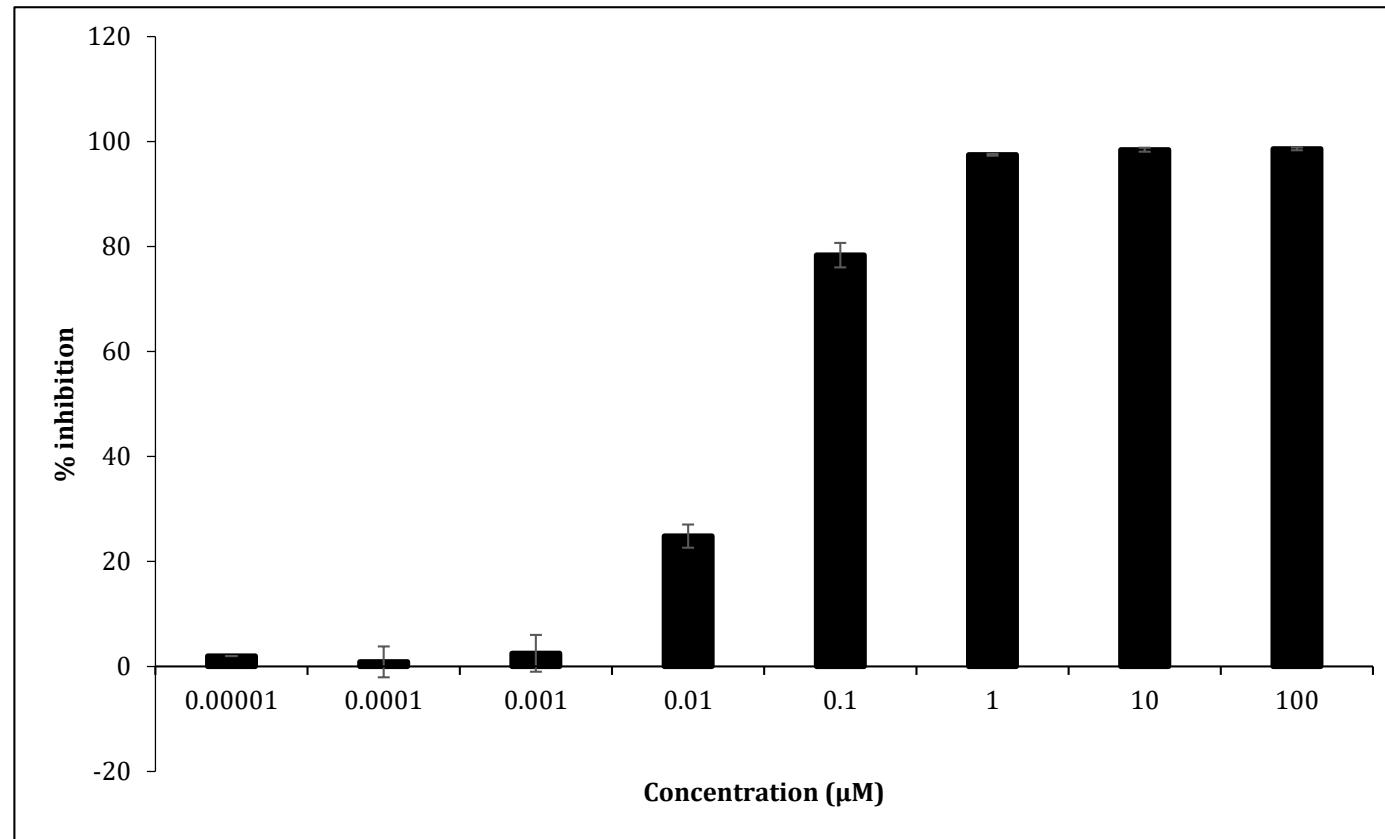


Figure S2: Schematic representation of the *in-vivo* setup

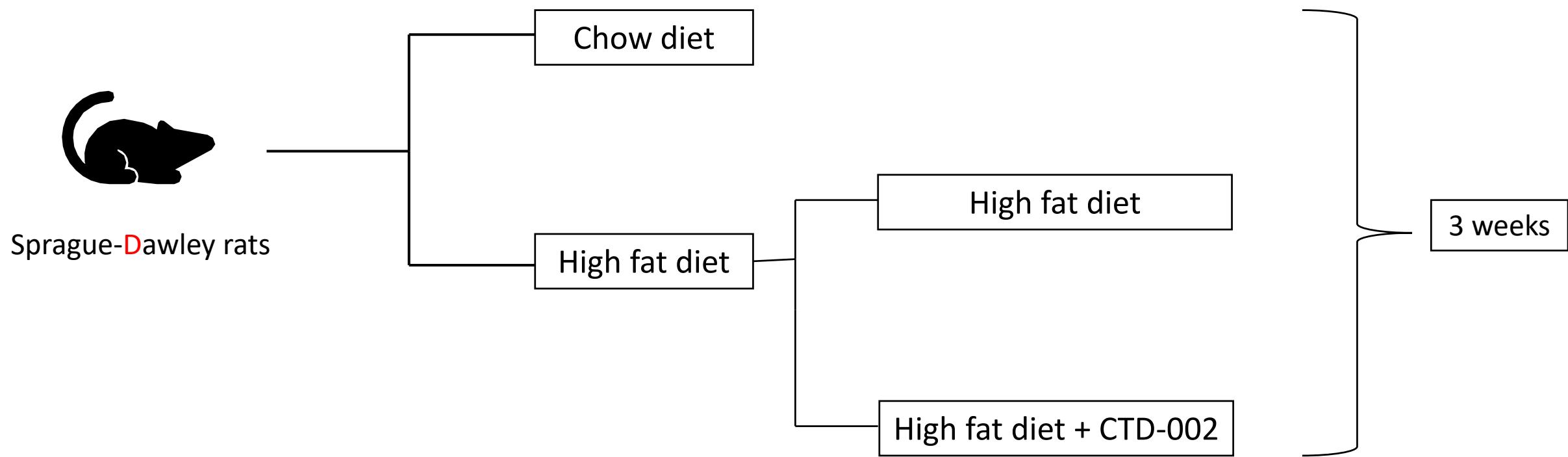


Figure S3: Effect of CTD-002 in bone marrow-derived macrophages under control conditions

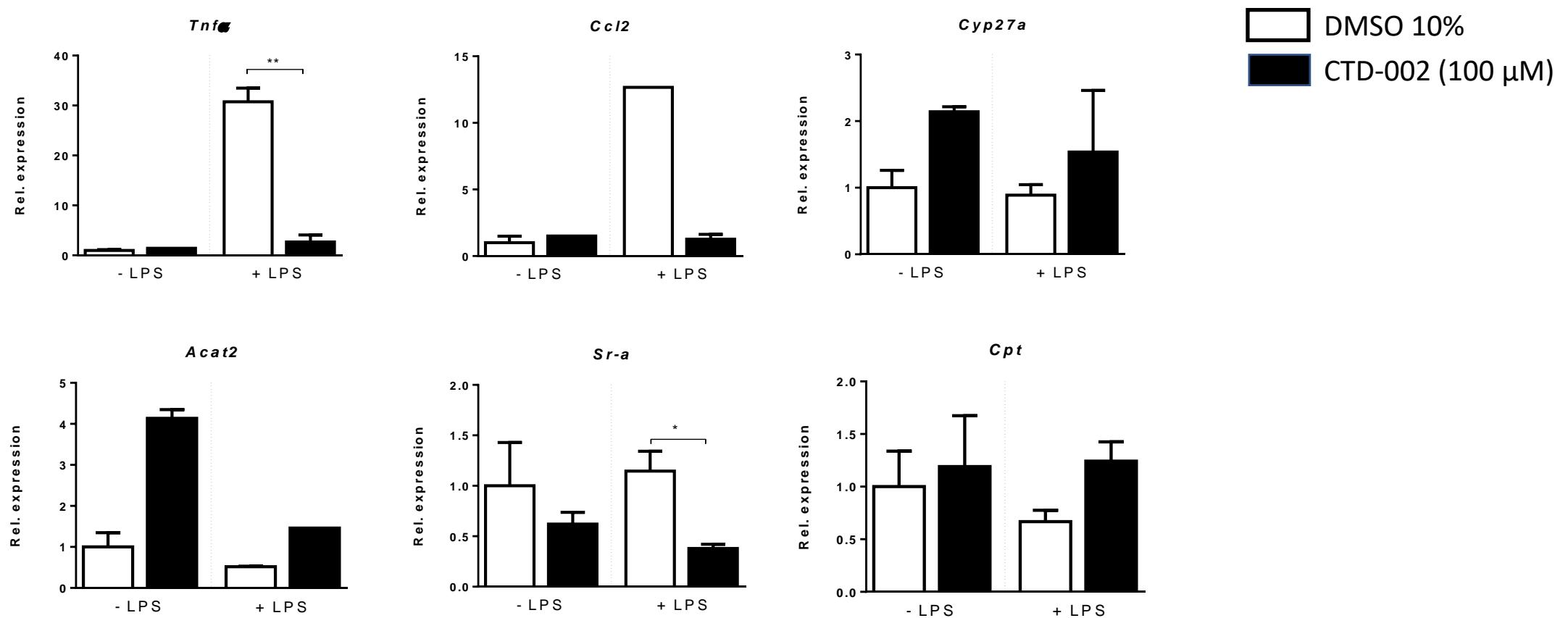


Figure S4: *Cd36* gene expression levels of BMDMs and HepG2

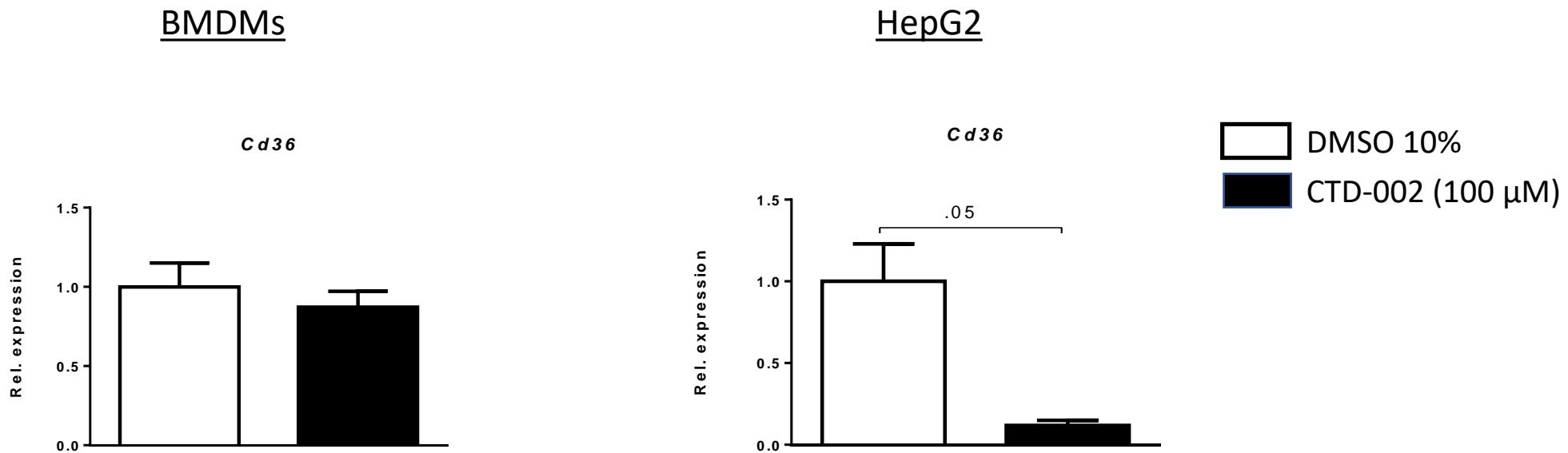


Figure S5: Food consumption of Sprague-Dawley rats

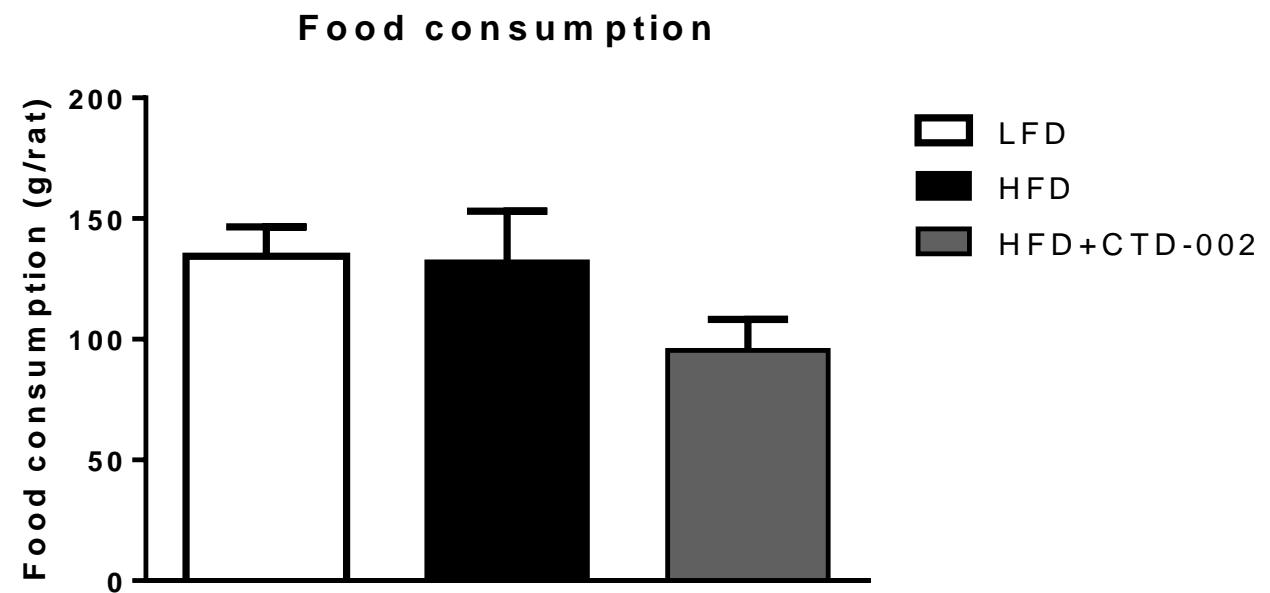
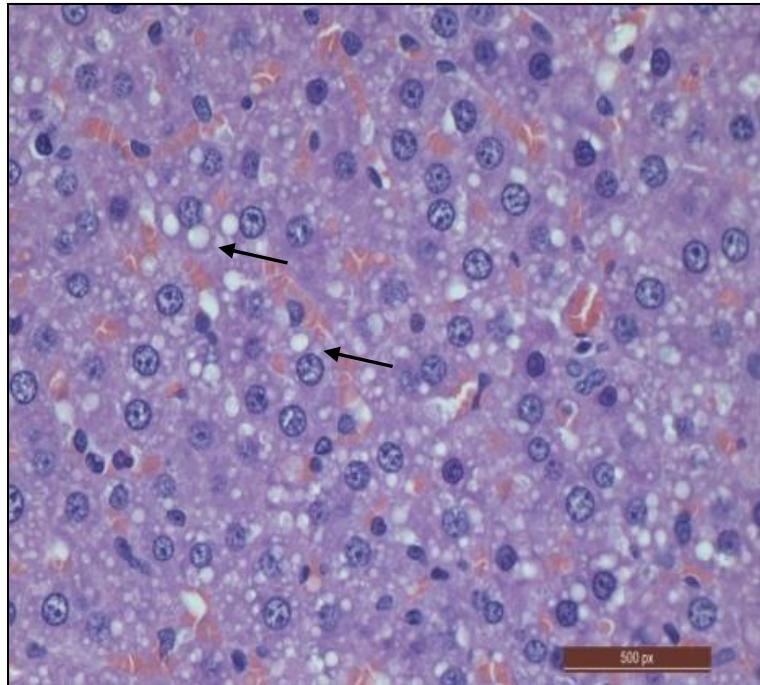
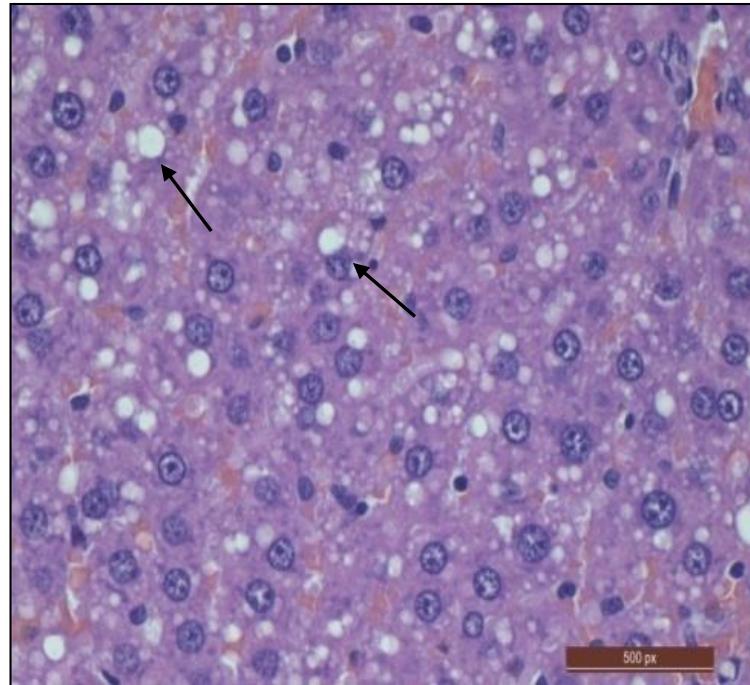


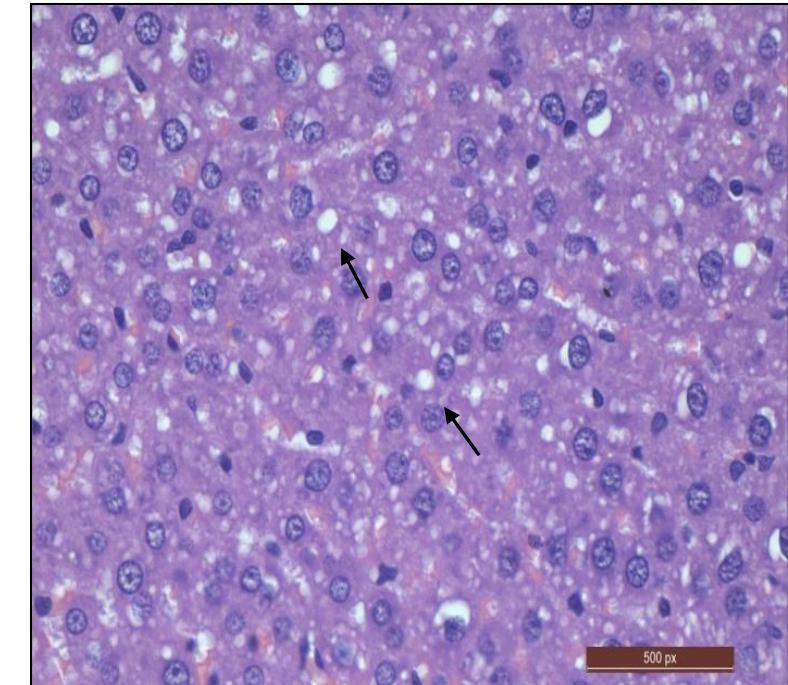
Figure S6: Representative images of fat droplets stained by haematoxylin and eosin staining



Low fat diet



High fat diet



High fat diet + CTD-002

Figure S7: Impact of high-fat diet on hepatic fat deposition in Sprague-Dawley rats

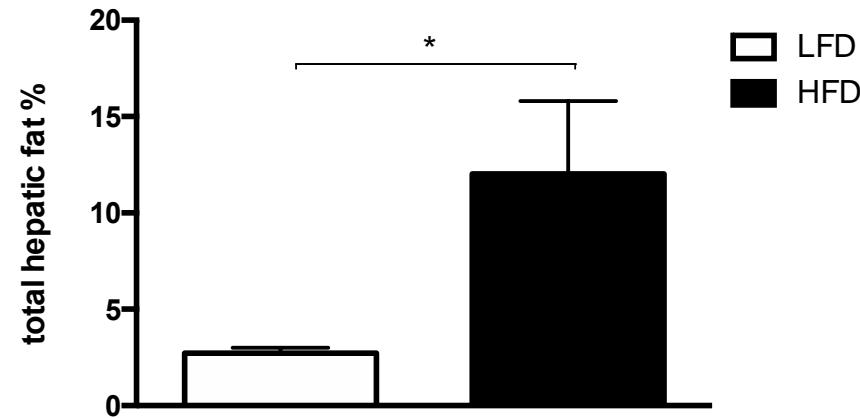
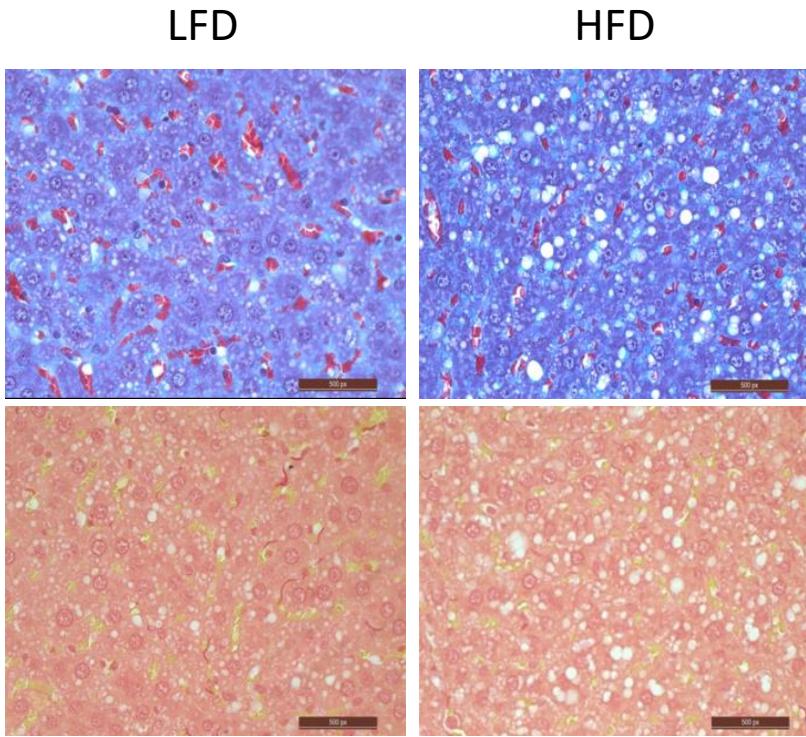


Table S1: Composition of low and high fat diets

Ingredients	Low fat diet (gm)	High fat diet (gm)
Casein	200	200
L-Cystine	3	3
Corn starch	506	0
Maltodextrin 10	125	125
Sucrose	68.8	68.8
Cellulose	50	50
Soybean Oil	25	25
Lard*	20	245
DiCalcium Phosphate	13	13
Calcium Carbonate	5.5	5.5
Choline Bitartrate	2	2
Potassium Citrate	16.5	16.5
Mineral Mix	10	10
Vitamin Mix	10	10
FD&C Blue Dye	0.01	0.05
FD&C yellow Dye	0.04	0
*Typical analysis of cholesterol in lard = 0.72 mg/gram.		

Table S2: Relative liver weight (per 100 g of body weight) of the experimental groups of rats

Group	Liver weight mg/100g body weight (Mean \pm SD)
LFD	3.67 \pm 0.61
HFD	3.73 \pm 0.27
HFD + CTD-002	3.73 \pm 0.47