

Supporting Information

Table S1 *In vitro* amylase inhibition effect of EGCG in comparison with some other phenolics in the literature

Phenolics	IC ₅₀ (μM)	Ref.
Acarbose	23.2	19
Tannic acid	140	19
Luteolin	170	19
EGCG	0.076	In our work
EGCG	0.024	18
Ferulic acid	≥5000	19

Table S2 Changes of body weight, length and Lee's index after 30 days feeding of a obese mice supplemented with 50 mg EGCG /kg-mouse

Group	Body weight (mg)	Body length (cm)	Lee's Index
Normal control	4.90±1.11	0.77±0.28	0.27±0.13
Obese	12.92±1.10**	0.47±0.22	0.82±0.11*
EGCG-treated	8.02±1.00*	0.36±0.22	0.51±0.07*

* < 0.05; ** < 0.001 (analysis of variance).

Table S3 Change of TC, TG, HDL-C, FFA and glucose levels after 30 days feeding of a obese mice supplemented with 50 mg EGCG /kg-mouse

Group	TC (mg/mL)	TG (mg/mL)	HDL-C (mg/mL)	FFA (mg/mL)	Glucose (mg/mL)
Normal control	2.74±0.29	0.85±0.09	1.82±0.48	203.12±96.46	10.38±1.18
Obese	4.21±0.47**	0.88±0.12	1.49±0.15	223.14±107.65	14.62±2.16
EGCG-treated	3.60±0.22*	0.83±0.13	2.02±0.49	117.02±60.69	12.59±1.78

** < 0.001; * < 0.05; analysis of variance

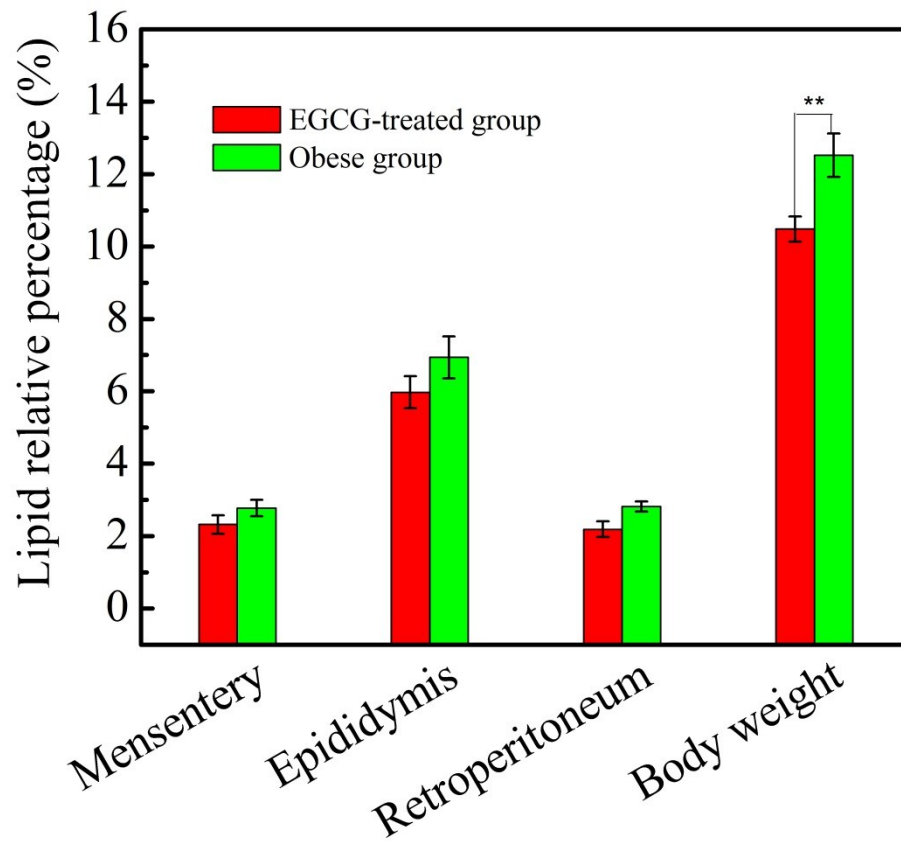


Fig.S1 The lipid relative percentage in organs and total body weight of obese mice after 30 days EGCG 50 mg/kg-mouse supplementation (** p<0.05)

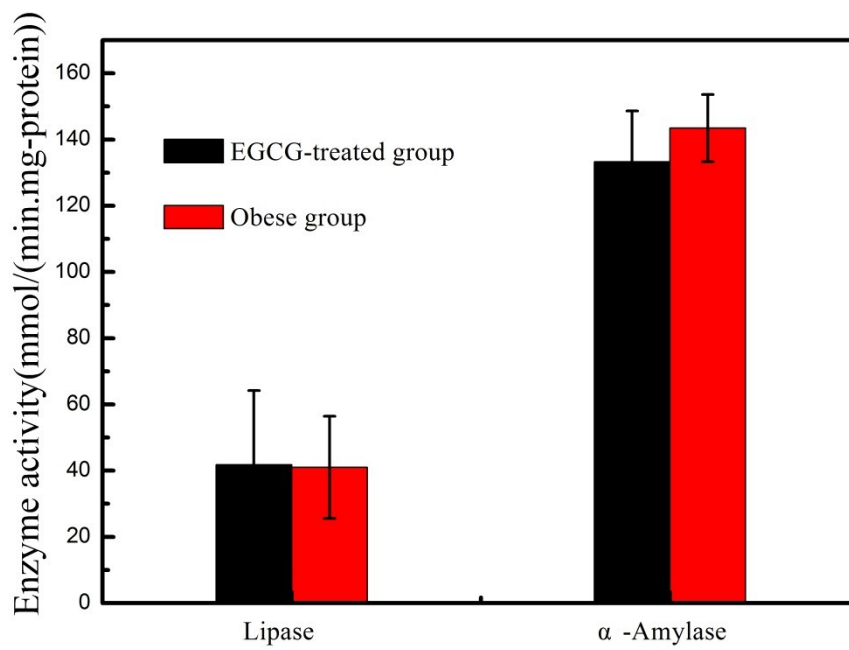


Fig.S2 Enzyme activity of lipase and amylase in serum of obese mice after 30 days EGCG 50 mg/kg-mouse supplementation.