

Table S1 Fatty acid composition of fish oil

Main fatty acids	% of total fatty acid
C12:0	0.39
C14:0	0.29
C16:0	0.56
C18:0	0.37
C18:1	0.27
C18:2	0.65
C18:3	0.39
C20:1	0.25
C20:4	nd
C20:5	7.92
C22:5	1.07
C22:6	71.56
Σ SFAs	11.06
Σ MUFAs	5.34
Σ n-6 PUFAs	0.65
Σ n-3 PUFAs	79.88

Note: “nd” means not detected.

Table S2 Ingredient composition of the experimental diets (g/kg diet)

Ingredients	Chow diet	Fish oil
Casein	200	200
Sucrose	100	100
Corn starch	397.49	397.49
Malto-dextrin	132	132
Powdered cellulose	50	50
Mineral-salt mix	35	35
Vitamin mix	10	10
DL-methionine	3	3
Choline bitartrate	2.5	2.5
TBHQ	0.02	0.02
Hydrogenated coconut oil	54.25	39.25
Safflower oil	12.39	12.39
Flaxseed oil	3.36	3.36
DHA-enriched fish oil	0	15

Notes: TBHQ means tertiary butylhydroquinone.

Table S3 Fatty acid composition of the experimental diets (% of total FA)

Fatty acids	Chow diet	Fish oil
ΣSFAs	79.80	60.74
ΣMUFAs	2.74	3.89
C18:2 n-6	14.51	14.65
C18:3 n-3	2.88	2.96
C20:4 n-6 (AA)	nd	nd
C20:5 n-3 (EPA)	nd	0.63
C22:6 n-3 (DHA)	nd	15.33

Note: “nd” means not detected.

Table S4 Sequences of the primers used in the quantitative RT-PCR

Gene	Forward primers	Reverse primers
FMO1	CGTGGAGGCCAGCCACT	CACCCATGCCCCTCCAG
FMO2	CACATCCAGCCTCACCTGC	GGCCTCGGAACCTCTCAATAC
FMO3	CACCACTGAAAAGCACGGTA	CTTATAGTCCCTGCTGTGGAAGC
FMO5	AGACTACAGTGTGCAGCGTGAAG	GCCATTGGCCCGAGGTA
β -Actin	GCAGATGTGGATCAGCAAGC	GTCAAAGAAAGGGTGTAACG