

Table S1: Ingredients and composition of experimental diets.

Ingredients (%)		Diets
Forage fish meat (Decapterus maruadsi)		58.00
Soy protein concentrate		12.00
α -starch		10.00
Krill meal		4.00
Squid splanchnic powder		3.50
Monocalcium phosphate		2.00
Spirulina		2.00
Vitamin premix		2.00
Fish oil		4.00
Gelatine		2.50
Total		100
Moisture (%)		52.47 \pm 0.04
Crude protein (%)	WW	24.84 \pm 0.21
	DW	52.26 \pm 0.40
Crude lipid (%)	WW	3.52 \pm 0.04
	DW	7.41 \pm 0.08
Ash (%)	WW	15.95 \pm 0.33
	DW	33.56 \pm 0.67
Taurine (mg/g)	WW	0.61 \pm 0.06
	DW	1.28 \pm 0.12

WW, % wet weight; DW, % dry weight.

Table S2: Fatty acid profiles (%) of soft artificial feed without taurine supplement

Fatty acids	% of total fatty acids
C14:0	2.05 \pm 0.07
C15:0	0.36 \pm 0.03
C16:0	29.68 \pm 0.63
C17:0	0.39 \pm 0.02
C18:0	3.59 \pm 0.04
SFA	36.06 \pm 0.72
C16:1n7	2.76 \pm 0.10
C17:1n7	0.13 \pm 0.00
C18:1n9 (z)	9.72 \pm 0.41
C18:1n9 (e)	2.73 \pm 0.12
C20:1n9	1.00 \pm 0.06
MUFA	16.34 \pm 0.62
C16:3n3	0.40 \pm 0.01
C18:2n6	16.50 \pm 0.09
C18:3n6	3.29 \pm 0.03
C18:3n3	1.38 \pm 0.05
C20:2n6	0.20 \pm 0.00
C20:4n6	1.82 \pm 0.03
C20:5n3	4.12 \pm 0.06
C22:5n-3	2.93 \pm 0.04
C22:6n-3	16.95 \pm 0.22
PUFA	47.59 \pm 0.49

Table S3: Sequences of primers used for real-time quantitative PCR.

Gene	Sequence (5'- 3')	Product size (bp)
Leptin	F: GAAACGACGATGCCTGTGG	129
	R: TGTCCTGTTCTTCTACGTGCTG	
Orexin	F: CAGATGCGATAATAGCGGTCA	138
	R: AATTGCCGATCTGCGCTT	

NPY	F: TGCCGAAGACCCAGGAGTT	150
	R: TGGTGGTGATCGTGGTGCT	
Cholecystokinin	F: ATGACCTTGACCTCCGTGG	123
	R: AACCTCCACCACCGCTTTC	
β -actin	F: TCTTGGGTATGGAATCTGCTGG	130
	R: CCTTTGCATTCTGTCAGCGAT	

NPY: Neuropeptide Y.