

Supplementary Table 1 The amino acid compositions of AKP

Amino acid	mg/g protein	Amino acid	mg/g protein
Asp	85.4	EAA	318.4
Thr	33.9	NEAA	457.1
Ser	32.1	TAA	775.5
Glu	122.9	EAA/TAA (%)	41.1
Gly	38.8	EAA/NEAA (%)	69.7
Ala	47.8	HAA (%)	34.4
Cys	5.1	BCAA (%)	18.1
Val	41.4	BCAA/AAA (F value)	2.44
Met	4.1		
Ile	37.3		
Leu	61.3		
Tyr	34.4		
Phe	47.6		
His	25.9		
Lys	66.9		
Arg	63.5		
Pro	27.1		

Supplementary Table 2. Detail of primers for quantitative fluorescence PCR

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<i>Colla1</i>	5'-TGCTGGACGTCCTGGTGAAG	5'-ACGTTGTCCAGCAATACCCTGAG
<i>Colla2</i>	5'-ACCCGATGGCAACAATGGA	5'-ACCAGCAGGGCCTTGTTTAC
<i>β-actin</i>	5'-AGCAACTAAACAACCTGCCAGTACTA-3'	5'-CGATGGCTACCCTTTGCTTCT-3'