

Active Native Chicken AK1

Cat. No. AK1-6667C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Chicken AK1 was purified from chicken muscle.
Species	Chicken
Source	Chicken Muscle
Description	Mutational analysis of the amino acid proline 17 of myokinase from chicken muscle is critical for structural stability, substrate binding and enzyme activity.
Form	essentially salt-free, lyophilized powder
Bio-activity	essentially salt-free, lyophilized powder, 1,500-3,000 units/mg protein (biuret)
Unit Definition	One unit will convert 2.0 μ moles of ADP to ATP+AMP per min at pH 7.6 at 37°C.
Applications	Myokinase from chicken muscle has been used in a study to assess the release of enzymes via acute myositis and neurogenic atrophy in muscles. It has also been used in a study to investigate the development of sarcoplasmic reticulum membranes in chicken pectoralis muscle cells.
Storage	-20°C

GENE INFORMATION

Gene Name	AK1 adenylate kinase 1 [Gallus gallus (chicken)]
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Official Symbol	AK1
Synonyms	AK1; adenylate kinase 1; adenylate kinase isoenzyme 1; NP_990440.1; EC 2.7.4.3; EC 2.7.4.6
Gene ID	396002
mRNA Refseq	NM_205109
Protein Refseq	NP_990440
UniProt ID	P05081
Chromosome Location	17
Pathway	Adenine ribonucleotide biosynthesis, IMP => ADP,ATP; Metabolic pathways; Purine metabolism
Function	Purine metabolism; adenylate kinase activity; nucleoside diphosphate kinase activity

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