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## Recombinant human AK4 (C22S) protein

Catalog Number: ADK0801

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-223aa

#### **UniProt No.**

P27144

#### **NCBI Accession No.**

NP 982289

#### **Alternative Names**

AK3, AKL3L, Adenylate kinase 3 alpha like 1, Adenylate kinase 3, AK3L1, AK6, AKL3L1, FIX, RP11 6/24.4.

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

29.3 kDa (259aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 2mM DTT, 30% glycerol, 0.1M NaCl

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Adenylate kinase (AK; adenosine triphosphate-adenosine monophosphate [ATP-AMP] phospho-transferase, EC 2. 7. 4. 3) is a ubiquitous monomeric enzyme involved energy metabolism of prokaryotic and eukaryotic cells. Five isozymes of adenylate kinase have been identified in vertebrates. AK1 is present in the cytosol of skeletal muscle, brain, and erythrocyte, while AK2 is localized in the intermembrane space of mitochondria of liver, kidney, spleen and heart. AK3, called GTP:AMP phosphotransferase, exists in the mitochondrial matrix of liver and heart. These isozymes contribute to homeostasis of the adenine nucleotide composition in the cell.



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Recombinant human AK3, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

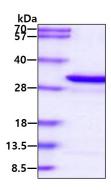
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MASK LLRAVILGPP GSGKGTVSQR IAQNFGLQHL SSGHFLRENI KASTEVGEMA KQYIEKSLLV PDHVITRLMM SELENRRGQH WLLDGFPRTL GQAEALDKIC EVDLVISLNI PFETLKDRLS RRWIHPPSGR VYNLDFNPPH VHGIDDVTGE PLVQQEDDKP EAVAARLRQY KDVAKPVIEL YKSRGVLHQF SGTETNKIWP YVYTLFSNKI TPIQSKEAY

#### **General References**

Nobumoto M., et al.(1998) J. Biol. Chem. 123(1):128-35 Noma T., et al.(2001) J. Biol. Chem. 358(Pt 1):225-32

### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

