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# Recombinant human AK4 protein

Catalog Number: ATGP0880

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-223aa

#### **UniProt No.**

P27144

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

NP 982289

#### **Alternative Names**

Adenylate kinase 4, AK3, AK3L1, AK3L2, MGC166959

#### PRODUCT SPECIFICATION

### **Molecular Weight**

27.4 kDa (243aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 2mM DTT, 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**

AK4 (adenylate kinase 4) is a member of the adenylate kinase family of enzymes. This protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Inherited mutations leading to AK4 deficiencies in erythrocytes have been implicated in hemolytic anemia. Recombinant human AK4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

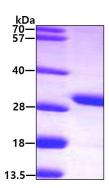
<MGSSHHHHHH SSGLVPRGSH> MASKLLRAVI LGPPGSGKGT VCQRIAQNFG LQHLSSGHFL RENIKASTEV GEMAKQYIEK SLLVPDHVIT RLMMSELENR RGQHWLLDGF PRTLGQAEAL DKICEVDLVI SLNIPFETLK DRLSRRWIHP PSGRVYNLDF NPPHVHGIDD VTGEPLVQQE DDKPEAVAAR LRQYKDVAKP VIELYKSRGV LHQFSGTETN KIWPYVYTLF SNKITPIQSK EAY

## **General References**

Noma T., et al. (2001) Biochem J. 358(1):225-32. Dzeja PP., et al. (1998) Mol Cell Biochem. 184(1-2):169-82.

# **DATA**

# **SDS-PAGE**



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

