

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.

Recombinant human AK4 protein

Catalog Number: ATGP0880

Amino acid Sequence

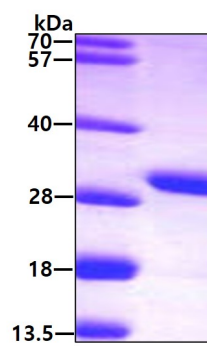
<MGSSHHHHHH SSGLVPRGSH> MASKLLRAVI LGPPGSGKGT VCQRIAQNFQ LQHLSSGHFL RENIKASTEY
GEMAKQYIEK SLLVPDHVIT RLMMSELENR RGQHWLLDGF PRTLQAEAL DKICEVDLVI SLNIPFETLK DRLSRRWIHP
PSGRVYNLDF NPPHVHGIDD VTGEPLVQQE DDKPEAVAAR LRQYKDVAKP VIELYKSRGV LHQFSGTETN KIWPYVYTLF
SNKITPIQSK EAY

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



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