

Product information



AK4, 1-223 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0880

Full name: Adenylate kinase 4.

NCBI Accession No.: NP_982289

Synonyms: AK3, AK3L1, AK3L2, MGC166959.

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.

Form: Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol

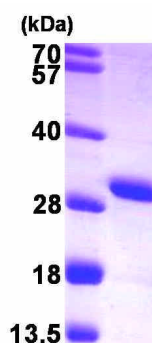
2mM DTT, 0.1M NaCl.

Molecular Weight: 27.4 kDa (243aa), confirmed by MALDI-TOF

(Molecular size on SDS-PAGE will appear higher)

Purity: > 90 % by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSSLVPRGSH MASKLLRAVI LGPPGSGKGT VCQRIAGNFG LQHLSSGHFL RENIKASTEY GEMAKQYIEK SLLVPDQVIT
RLMMELEENR RGQHWLLDGF PRTLQAEAL DKICEVDLVI SLNIPFETLK DRLSRRWHP PSGRVYNLDF NPPHVHGIDD VTGEPLVQQE
DDKPEAVAAR LRQYKDVAKP VIELYKSRGV LHQFSGTETN KIWPVYVTLF SNKITPIQSK EAY

General references:

Noma T., *et al.* (2001) *Biochem J.* 358(1):225-32.

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Dzeja PP., *et al.* (1998) *Mol Cell Biochem.* 184(1-2):169-82.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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