

AR09001PU-S

Human Adenylate kinase 3 / AK3 (1-223) - Purified

Alternate names:

AK3L1, AK6, AKL3L, GTP:AMP phosphotransferase mitochondrial

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

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.

Uniprot ID:

[Q9UII7](#)

NCBI:

[NP_001186781.1](#)

GenelD:

[50808](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid

Purity: >90% > / = 90% by SDS-PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0), 2 mM DTT, 20% Glycerol

Description:

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

AA Sequence:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMASK LLRAVILGPP GSGKGTVSQR
IAQNFGQLHL SSGHFLRENI KASTVEGEMA KQYIEKSLLV PDHVITRLMM SELENRRGQH
WLLDGFPRTL GQAEALDKIC EVDLVISLNI PFETLKDRLS RRWIHPPSGR VYNLDFNPPH
VHGIDDVTE PLVQQEDDKP EAVAARLRQY KDVAKPVIEL YKSRGVLHQF SGTETNKIWP
YVYTLFSNKI TPIQSKEAY

Molecular weight: 29.3 kDa 29.3 kDa (259 aa)

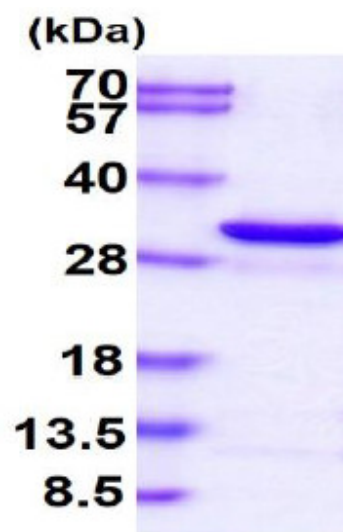
Storage:

Store at -20°C. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

Noma T., et al.(2001) J. Biol. Chem. 358(Pt 1):225-32

Pictures:



15% SDS-PAGE (3ug)