

AK4 Human

Description:AK4 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 243 amino acids(1-223a.a.) and having a molecular mass of 27.4kDa. AK4 protein is fused to a 20 amino acid His tag at N-terminus and is purified by standard chromatography.

Catalog #:PKPS-274

For research use only.

Synonyms:Adenylate Kinase 4, AK3, Adenylate Kinase 3-like 1, AK3L1, ATP-AMP transphosphorylase, Adenylate Kinase 3, GTP:AMP phosphotransferase, mitochondrial adenylate kinase-3, AK3L2, MGC166959, EC 2.7.4.3.

Source:Escherichia Coli.

Physical Appearance:Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MASKLLRAVI LGPPGSGKGT
VCQRIQNFG LQHLSSGHFL RENIKASTEV GEMAKQYIEK SLLVPDHVIT RLMMSELENR
RGQHWLLDGF PRTLQGAEAL DKICEVDLVI SLNIPFETLK DRLSRRWIHP PSGRVYNLDF
NPPHVHGIDD VTGEPLVQQE DDKPEAVAAR LRQYKDVAKP VIELYKSRGV LHQFSGTETN
KIWPYVYTFLF SN

Purity:Greater than 90% as determined by SDS-PAGE.

Formulation:

AK4 Human solution (1mg/1ml) containing 20mM Tris HCL pH-8, 2mM DTT, 0.1M NaCl, and 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

AK4 belongs to the adenylate kinase family of enzymes. AK4 protein is restricted to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide structures in a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Hereditary mutations which cause AK4 deficiencies in erythrocytes have been associated to hemolytic anemia.

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