
Product Data Sheet

Product Name: AK4 Human
 Cat. No.: GP22416
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MASKLLRAVI LGPPGSGKGT VCQRIAQNFG LQHLSSGHFL RENIKASTEVE GEMAKQYIEK SLLVPDHVIT RLMMSELENR RGQHWLLDGF PRTLQAEAL DKICEVDLVI SLNIPFETLK DRLSRRWIHP PSGRVYNLDF NPPHVHGIDD VTGEPLVQQE DDKPEAVAAR LRQYKDVAKP VIELYKSRGV LHQFSGTETN KIWPYVYTLF SNKITPIQSK EAY		
Formulation	AK4 Human solution (1mg/1ml) containing 20mM Tris-HCl pH-8, 2mM DTT, 0.1M NaCl, and 10% glycerol.		

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.

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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AK4 protein is fused to a 20 amino acid His tag at N-terminus and is purified by standard chromatography.

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