
Product Data Sheet

Product Name: AK3L1 Human
 Cat. No.: GP22415
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AK3; Adenylate kinase 3 alpha like 1; AK3L1; AK4.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMASK LLRAVILGPP GSGKGTVSQR IAQNFGLQHL SSGHFLRENIKASTEVGEMA KQYIEKSLLV PDHVITRLMM SELENRRGQH WLLDGFPRTL GQAEALDKIC EVDLVISLNI PFETLKDRLS RRWIHPPSGR VYNLDFNPPH VHGIDDVTGE PLVQQEDDKP EAVAARLRQY KDVAKPVIEL YKSRGVLHQF SGTETNKIWP YVYTLFSNKI TPIQSKEAY.		
Formulation	AK3L1 solution containing 20mM Tris-HCl pH-8, 2mM DTT and 20% glycerol.		

Introduction

AK3L1 is an affiliate of the adenylate kinase family of enzymes. AK3L1 enzyme is restricted to the mitochondrial matrix. Adenylate kinases-3 regulates the adenine and guanine nucleotide compositions within a cell by means of catalyzing the reversible transfer of phosphate group among these nucleotides. 5 different isozymes of adenylate kinase have been identified in vertebrates. The enzyme expression of various adenylate kinase isozymes is growth regulated and tissue-specific.

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

AK3L1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 259 amino acids (1-223) and having a molecular mass of 29.3 kDa. The

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

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AK3L1 is fused with 35 amino acid His-tag at N-terminus. AK3L1 is purified by proprietary chromatographic techniques.

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