Product Data Sheet

Product Name:	AK2 Human
Cat. No.:	GP22412
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ADK2; AK-2; Adenylate kinase isoenzyme 2 mitochondrial; ATP-AMP transphosphorylase 2; adenylate kinase 2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAPSVPAAEP EYPKGIRAVL LGPPGAGKGTQAPRLAENFC VCHLATGDML RAMVASGSEL GKKLKATMDA GKLVSDEMVV ELIEKNLETP LCKNGFLLDG FPRTVRQAEM LDDLMEKRKE KLDSVIEFSIPDSLLIRRIT GRLIHPKSGR SYHEEFNPPK EPMKDDITGE PLIRRSDDNE KALKIRLQAY HTQTTPLIEY YRKRGIHSAI DASQTPDVVF ASILAAFSKA TCKDLVMFI.		
Formulation	AK2 solution containing 20mM Tris pH-7.5, 5mM DTT and 20% glycerol.		

Introduction

Adenylate kinases play a role in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. There are 3 types of adenylate kinase isozymes, AK1, AK2, and AK3 in vertebrates. Expression of these isozymes are tissue-specific and developmentally regulated. AK2 is localized in the mitochondrial intermembrane space and is involved in apoptosis. AK2 is mutated in individuals with reticular dysgenesis.

Biological Activity

Specific activity: > 1.5 units/ml. One unit will convert 2.0 umoles of ADP to ATP + AMP per minute at pH 7.5 at 25C.

Stability

AK2 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C . Please prevent freeze thaw cycles.

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Background

AK2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 259 amino acids and having a molecular mass of 28.6 kDa. AK2 is fused to 20 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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