
Product Data Sheet

Product Name: AK2 Mouse
 Cat. No.: GP22414
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Adenylate kinase 2 mitochondrial isoform a; Ak-2; D4ErtD220e; mitochondrial; ATP-AMP transphosphorylase 2; ATP:AMP phosphotransferase; Adenylate monophosphate kinase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHPMAPNVL ASEPEIPKGI RAVLLGPPGA GKGTQAPKLA ENFCVCHLAT GDMLRAMVAS GSEL TMDAGKLVSD EMVVELIEKN LETPCKNGF LLDGFPRTVR QAEMLDDLME KRKEKLDLSDI EFSIQDILLI RRITGRLIHP KSGRSNPPKEPMKDD ITGEPLIRRS DDNEKALKTR LEAYHTQTTP LVEYYRKRGI HCAIDASQTP DIVFASILAA FSKATCKDLV MFI		
Formulation	AK2 protein solution (0.5mg/ml) containing 20mM Tris-Hcl buffer (pH8.5), 10% glycerol and 1mM DTT.		

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 is > 40 units/mg. One unit will convert 2.0 umoles of ADP to ATP + AMP per minute at pH 7.5 at 37C.

Stability

AK2 Mouse Recombinant although stable at 4°C for 1 week, should be stored below -

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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18°C . Please prevent freeze thaw cycles.

Background

AK2 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 263 amino acids (1-239 a.a) and having a molecular mass of 29kDa. AK2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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