
Product Data Sheet

Product Name: AK5 Human
 Cat. No.: GP22417
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Adenylate kinase isoenzyme 5; AK 5; ATP-AMP transphosphorylase 5; AK5; AK6.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMNTNDA KEYMARREIP QLFESLLNGL MCSKPEDPVE YLESCLQKVK ELGGCDKVKW DTFVSQEKKT LPPLNGGQSR RSFLRNVMPG NSNFPYRRYD RLPPIHQFSI ESDTDLSETA ELIEEYEVFD PTRPRPKIIL VIGGPGSGKG TQSLKIAERY GFQYISVGEL LRKKIHSTSS NRKWSLIAKI ITTGELAPQE TTITEIKQKL MQIPDEEGIV IDGFPRDVAQ ALSFEDQICT PDLVVFLACA NQRLKERLLK RAEQQGRPDD NVKATQRRLM NFKQNAAPLV KYFQEKGLIM TFDADRDEDE VFYDISMAVD NKLFPNKEAA AGSSDLDPSP ILDTGEIIDT GSDYEDQGDD QLNVFGEDTM GGFMEDLRKC KIIIFIIGPG SGKGTQCEKL VEKYGFTHLS TGELLREELA SESERSKLIR DIMERGDLPV SGIVLELLKE AMVASLGDTR GFLIDGYPRE VKQGEEFGRR IGDPQLVICM DCSADTMTNR LLQRSRSSLP VDDTTKTIK RLEAYYRASI PVIAYYETKT QLHKINAEGT PEDVFLQLCT AIDSIF.		
Formulation	AK5 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.		

Introduction

Adenylate kinase isoenzyme 5 (AK5) belongs to the adenylate kinase family, which is involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. AK5 is related to the UMP/CMP kinase of several species. AK5 is located in the cytosol and expressed exclusively in the brain.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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

AK5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 586 amino acids (1-562 a.a.) and having a molecular mass of 65.9kDa. AK5 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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