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Adenylate Kinase 1 Protein (AK1) (AA 1-210) (His tag)





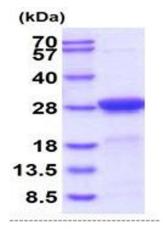
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Overview	
Quantity:	100 μg
Target:	Adenylate Kinase 1 (AK1)
Protein Characteristics:	AA 1-210
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Adenylate Kinase 1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)
Product Details	
Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMGCCVSS EPQEEGGRKT GEKLKKAKII FVVGGPGSGK GTQCEKIVQK YGYTHLSTGD LLRAEVSSGS ERGKKLSAIM EKGELVPLDT VLDMLRDAML AKVDSSNGFL IDGYPREVKQ GEEFEQKIGQ PTLLLYVDAG AETMTQRLLK RGETSGRVDD NEETIKKRLE TYYNATEPVI SFYDKRGIVR KVNAEGTVDT VFSEVCTYLD SLK
Purity:	> 90 % by SDS - PAGE
Biological Activity Comment:	Specific activity is > 150 units/mg. One unit will convert 2.0 umoles of ADP to ATP + AMP per minute at pH 7.5 at 37C.
Target Details	
Target:	Adenylate Kinase 1 (AK1)

Target Details

rarget Details		
Alternative Name:	Ak1 (AK1 Products)	
Background:	Ak1, also known as Adenylate kinase isoenzyme 1 isoform 1, is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfe of the terminal phosphate group between ATP and AMP. This protein is found in the cytosol of skeletal muscle, brain and erythrocytes. It is a small ubiquitous enzyme which is essential for maintenance and cell growth. Defects in Ak1 are the cause of a form of hemolytic anemia. Recombinant mouse Ak1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.	
Molecular Weight:	25.5 kDa (233aa) confirmed by MALDI-TOF	
NCBI Accession:	NP_067490	
UniProt:	Q9R0Y5	
Pathways:	Nucleotide Phosphorylation, Ribonucleoside Biosynthetic Process	
Application Details		
Application Notes:	Optimal working dilution should be determined by the investigator.	
Comment:	Bioactivity Validated	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	0.5 mg/mL	
Buffer:	Liquid. In 20 mM Tris-Hcl buffer (pH 8.0) containing 10 % glycerol, 1 mM DTT	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.	



15% SDS-PAGE (3ug)

SDS-PAGE

Image 1.