

Human recombinant protein AK1
Human Recombinant AK1
Catalog # PBV10621r**Specification**

Human recombinant protein AK1 - Product info

Primary Accession	P00568
Concentration	1
Calculated MW	23.7 kDa (214 aa, 1-194 aa + NT His Tag) KDa

Human recombinant protein AK1 - Additional Info

Gene ID	203
Gene Symbol	AK1

Other Names

Adenylate kinase isoenzyme1, ATP-AMP transphosphorylase 1, Myokinase.

Gene Source	Human
Source	E. Coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	>6.0 units/ml
Sequence	MGSSHHHHHH SSGLVPRGSH MEEKLKTKI IFVVGPGSG KGTQCEKIVQ KYGYTHLSTG DLLRSEVSSG SARGKKLSEI MEKQLVPLE TVLDMLRDAM VAKVNTSKGF LIDGYPREVQ QGEEFERRIG QPTLLLYVDA GPETMTQRLL KRGETSGRVD DNEETIKKRL ETTYKATEPV IAFYEKRIV RKNVNAEGSVD SVFSQVCTHL DALK

Format

Liquid

Storage

-80°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 7.5) containing 10% glycerol.

Human recombinant protein AK1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

Human recombinant protein AK1 - Images

Human recombinant protein AK1 - Background

AK1 is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer 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 human AK1 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

Human recombinant protein AK1 - References

von Zabern I., et al. *Eur. J. Biochem.* 68:281-290(1976).
Matsuura S., et al. *J. Biol. Chem.* 264:10148-10155(1989).
Noma T., et al. Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Lubec G., et al. Submitted (DEC-2008) to UniProtKB.