

Adenylate Kinase 1 Human Recombinant

Item Number	rAP-0833
Synonyms	Adenylate kinase isoenzyme 1, AK 1, ATP-AMP transphosphorylase 1, Myokinase, AK1.
Description	AK1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 214 amino acids (1-194 a.a.) and having a molecular mass of 23.7kDa. The AK1 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P00568
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MEEKLKKTKI IFVVGGPGSG KGTQCEKIVQ KYGYTHLSTG DLLRSEVSSG SARGKKLSEI MEKQQLVPLE TVLDMLRDAM VAKVNTSKGF LIDGYPREVQ QGEE- FERRIG QPTLLLYVDA GPETMTQRLR KRGETSGRVD DNEETIKKRL ETTYKATEPV IAFYEKRGIV RKV- NAEGSVD SVFSQVCTHL DALK.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer 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.
Formulation and Purity	The AK1 protein solution (1mg/ml) contains 20mM Tris-HCl pH-8 and 10% glycerol. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity: > 6.0 units/ml. One unit will convert 2.0 umoles of ADP to ATP + AMP per minute at pH 7.5 at 25C.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**