

Adenylate Kinase 2 Human Recombinant

Item Number	rAP-0831
Synonyms	ADK2, AK-2, Adenylate kinase isoenzyme 2 mitochondrial, ATP-AMP transphosphorylase 2, adenylate kinase 2.
Description	AK2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 259 amino acids and having a molecular mass of 28.6 kDa. AK2 is fused to 20 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P54819
Amino Acid Sequence	MGSSHHHHHH SSSLVPRGSH MAPSVPAEP EYPKGIRAVL LGPPGAGKGTQAPRLAENFC VCHLATGDML RAMVASGSEL GKCLKATMDA GKLVSDEMVV ELIEKNLETP LCKNGFLLDG FPRTVR- QAEM LDDLMEKRKE KLDSVIEFSIPDSSLIRRT GRLIHPKSGR SYHEEFNPPK EPMKDDITGE PLIRRSDDNE KALKIRLQAY HTQTTPLIEY YRKRGIHSAI DASQTPDVVF ASILAAFSKA TCKDLVMFI.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. AK2 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Formulation and Purity	AK2 solution containing 20mM Tris pH-7.5, 5mM DTT and 20% glycerol. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity: > 1.5 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**