

## 32-2939: AK4 Recombinant Protein

**Alternative Name :** Adenylate Kinase 4,AK3,Adenylate Kinase 3-like 1,AK3L1,ATP-AMP transphosphorylase,Adenylate Kinase 3,GTP:AMP phosphotransferase,mitochondrial adenylate kinase-3,AK3L2,MGC166959,EC 2.7.4.3.

### Description

Source : Escherichia Coli. AK4 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 243 amino acids (1-223a.a.) and having a molecular mass of 27.4kDa. AK4 protein is fused to a 20 amino acid His tag at N-terminus and is purified by standard chromatography. AK4 belongs to the adenylate kinase family of enzymes. AK4 protein is restricted to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide structures in a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Hereditary mutations which cause AK4 deficiencies in erythrocytes have been associated to hemolytic anemia.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 90% as determined by SDS-PAGE.  
**Content :** AK4 Human solution (1mg/1ml) containing 20mM Tris HCL pH-8, 2mM DTT, 0.1M NaCl, and 10% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MASKLLRAVI LGPPGSGKGT VCQRI AQNFG LQHLSSGHFL RENIKASTE V  
GEMAKQYIEK SLLVPDHVIT RLMMSELENR RGQHWLLDGF PRTL GQAEAL DKICEVDLVI SLNIPFETLK  
DRLSRRWIHP PSGRVYNLDF NPPVHGIDD VTGEPLVQQE DDKPEAVAAR LRQYKDVAKP VIELYKSRGV  
LHQFSGTETN KIWPYVYTLF SNKITPIQSK EAY

