

## AK3L1 Human

**Description:**AK3L1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 259 amino acids (1-223) and having a molecular mass of 29.3 kDa. The AK3L1 is fused with 35 amino acid His-tag at N-terminus.AK3L1 is purified by proprietary chromatographic techniques.

**Catalog #:**PKPS-353

For research use only.

**Synonyms:**AK3, Adenylate kinase 3 alpha like 1, AK3L1, AK4.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMASK  
LLRAVILGPP GSGKGTVSQR IAQNFGQLHL SSGHFLRENIKASTEVGEMA KQYIEKSLLV  
PDHVITRLMM SELENRRGQH WLLDGFPTL GQAEALDKIC EVDLVISLNI PFETLKDRLS  
RRWIHPPSGR VYNLDFNPPH VHGIDDTVGE PLVQQEDDKP EAVAARLRQY KDVAKPVIEL  
YKSRGVLHQF SGT

**Purity:**Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**

AK3L1 solution containing 20mM Tris pH-8, 2mM DTT and 20% glycerol.

**Stability:**

AK3L1 Human Recombinant although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

**Usage:**

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**Introduction:**

AK3L1 is an affiliate of the adenylate kinase family of enzymes. AK3L1 enzyme is restricted to the mitochondrial matrix. Adenylate kinases-3 regulates the adenine and guanine nucleotide compositions within a cell by means of catalyzing the reversible transfer of phosphate group among these nucleotides. 5 different isozymes of adenylate kinase have been identified in vertebrates. The enzyme expression of various adenylate kinase isozymes is growth regulated and tissue-specific.

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