

## 32-2937: AK2 Recombinant Protein

**Alternative Name :** ADK2,AK-2,Adenylate kinase isoenzyme 2 mitochondrial,ATP-AMP transphosphorylase 2,adenylate kinase 2.

### Description

Source : Escherichia Coli. 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. Adenylate kinases play a role in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. There are 3 types of adenylate kinase isozymes, AK1, AK2, and AK3 in vertebrates. Expression of these isozymes are tissue-specific and developmentally regulated. AK2 is localized in the mitochondrial intermembrane space and is involved in apoptosis. AK2 is mutated in individuals with reticular dysgenesis.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 10 µg   |
| <b>Purification :</b>      | Greater than 95.0% as determined by SDS-PAGE.   |
| <b>Content :</b>           | AK2 solution containing 20mM Tris pH-7.5, 5mM DTT and 20% glycerol.   |
| <b>Storage condition :</b> | AK2 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.   |
| <b>Amino Acid :</b>        | MGSSHHHHHH SSGLVPRGSH MAPSVPAAP EYPKGIRAVL LGPPGAGKGTQAPRLAENFC<br>VCHLATGDML RAMVASGSEL GKCLKATMDA GKLVSDEMVV ELIEKNLETP LCKNGFLLDG<br>FPRTVRQAEM LDDLMEKRKE KLDSVIEFSIPDSLLIRIT GRLIHPKSGR SYHEEFNPPK<br>EPMKDDITGE PLIRRSDDNE KALKIRLQAY HTQTTPLEIY YRKRGIHSAI DASQTPDVVF<br>ASILAAFSKA TCKDLVMFI. |

### Application Note

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.

