

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

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