

Recombinant Human AK4, His-tagged

Cat. No. AK4-26525TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human AK3L1 (amino acids 1-223) with an N terminal His tag; 243 amino acids with tag, Predicted MWt 27.4 kDa.
Species	Human
Source	E.coli
ProteinLength	223 amino acids
Description	This gene encodes a member of the adenylate kinase family of enzymes. The encoded protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM_013410, NM_203464, and NM_001005353 is located on chromosome 1.
Conjugation	HIS
Molecular Weight	27.400kDa inclusive of tags
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 2mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMASKLLRAVILGPPGSGKGTVCQRIAQNFGQLHLS SGHFLRENIKASTEVGEMAKQYIEKSLLVPDHVITRLMMSELENRRGQHWLLDGFPR TLGQAEALDKICEVDLVISLNIPFETLKDRLSRRWIHPPSGRVYNLDFNPPHVHGIDD VTGEPLVQQEDDKPEAVAAARLRQYKDVAKPVIELYKSRGVLHQFSGTETNKIWPYV YTLFSNKITPIQSKEAY
Sequence Similarities	Belongs to the adenylate kinase family.

GENE INFORMATION

Gene Name	AK4 adenylate kinase 4 [Homo sapiens]
Official Symbol	AK4
Synonyms	AK4; adenylate kinase 4; adenylate kinase 3 , adenylate kinase 3 like 1 , AK3, AK3L1; adenylate kinase isoenzyme 4, mitochondrial;
Gene ID	205
mRNA Refseq	NM_001005353
Protein Refseq	NP_001005353

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MIM	103030
Uniprot ID	P27144
Chromosome Location	1p31.3
Pathway	Metabolic pathways, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem;
Function	ATP binding; GTP binding; adenylate kinase activity; nucleotide binding; transferase activity;

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