

Recombinant Human AK4, His-tagged

Cat. No. AK4-27152TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human AK3L1 (amino acids 1-223) with N terminal His tag; 259 aa, 29.3 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	29.300kDa inclusive of tags
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.03% DTT
Storage	Store at -20°C (dessicate conditions).
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMASK LLRAVILGPP GSGKGTVSQR IAQNFGQLQHL SSGHFLRENIKASTEVGEMA KQYIEKSLLV PDHVITRLMM SELENRRGQH WLLDGFPRTL GQAEALDKIC EVDLVISLNI PFETLKDRLS RRWIHPPSGR VYNLDFNPPH VHGIDDTVGE PLVQQEDDKP EAVAARLRQY KDVAKPVIEL YKSRGVLHQF SGTETNKIWP YVYTLFSNKI TPIQSKEAY
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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