

Recombinant Human AK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AK1-1926H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AK1 MS Standard C13 and N15-labeled recombinant protein (NP_000467) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes an adenylate kinase enzyme involved in energy metabolism and homeostasis of cellular adenine nucleotide ratios in different intracellular compartments. This gene is highly expressed in skeletal muscle, brain and erythrocytes. Certain mutations in this gene resulting in a functionally inadequate enzyme are associated with a rare genetic disorder causing nonspherocytic hemolytic anemia. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.
Molecular Mass	21.5 kDa
AA Sequence	MEEKLKTKIIFVVGPGSGKGTQCEKIVQKYGYTHLSTGDLRSEVSSGSARGKKL SEIMEKGQLVPLETVLDMLRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTL LLYVDAGPETMTQRLLKRGETSGRVDDNEETIKKRLETYYKATEPVIAFYEKRGIVRK VNAEGSVDSVFSQVCTHLDALKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	AK1 adenylate kinase 1 [Homo sapiens (human)]
Official Symbol	AK1
Synonyms	AK1; adenylate kinase 1; adenylate kinase isoenzyme 1; AK 1; myokinase; ATP-AMP transphosphorylase 1;
Gene ID	203
mRNA Refseq	NM_000476
Protein Refseq	NP_000467
MIM	103000
UniProt ID	P00568

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SDS-PAGE



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