

Recombinant Full Length Human AK1 Protein, C-Flag-tagged

Cat. No. AK1-1870HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human AK1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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. This gene shares readthrough transcripts with the upstream ST6GALNAC6 gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	21.5 kDa
AA Sequence	MEEKLKKTKIIFVVGPGSGKGTQCEKIVQKYGYTHLSTGDLLRSEVSSGSARGKKL SEIMEKGQLVPLE TVLDMLRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPT LLLYVDAGPETMTQRLLKRGETSGRVD DNEETIKKRLETYYKATEPVIAFYEKRGIVR KVNAEGSVDSVFSQVCTHLDALK TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Purine metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	AK1 adenylate kinase 1 [Homo sapiens (human)]
Official Symbol	AK1
Synonyms	HTL-S-58j
Gene ID	203
mRNA Refseq	NM_000476.3
Protein Refseq	NP_000467.1

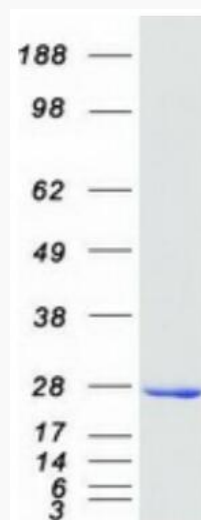
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MIM 103000

UniProt ID P00568



Coomassie blue staining of purified AK1 protein.

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