

Recombinant Mouse Ak1 Protein, His-tagged

Cat. No. Ak1-105M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ak1 Protein (Met1-Lys194) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Lys194
Description	Enables adenylate kinase activity. Acts upstream of or within regulation of G1/S transition of mitotic cell cycle. Located in cytoplasm; outer dense fiber; and plasma membrane. Is expressed in several structures, including heart; lung; metanephros; nervous system; and nose. Human ortholog(s) of this gene implicated in congenital nonspherocytic hemolytic anemia and hemolytic anemia. Orthologous to human AK1 (adenylate kinase 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 25.2 kDa Accurate Molecular Mass: 25 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Ak1 adenylate kinase 1 [Mus musculus (house mouse)]
Official Symbol	Ak1
Synonyms	AK1; adenylate kinase 1; adenylate kinase isoenzyme 1; AK 1; myokinase; cytosolic adenylate kinase; ATP-AMP transphosphorylase 1; Ak-1; B430205N08Rik
Gene ID	11636
mRNA Refseq	NM_001198790
Protein Refseq	NP_001185719
UniProt ID	Q9R0Y5

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