

# Rat AK1 / Adenylate kinase 1 Protein (His Tag)

Catalog Number: 80583-R07E



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

AK1

### Protein Construction:

A DNA sequence encoding the rat Ak1 (NP\_077325.2) (Met1-Lys194) was expressed with a polyhistidine tag at the N-terminus.

**Source:** Rat

**Expression Host:** E. coli

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE.

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

The recombinant rat Ak1 consists 212 amino acids and predicts a molecular mass of 23.8 kDa.

### Formulation:

Lyophilized from sterile PBS, 10 % glycerol.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

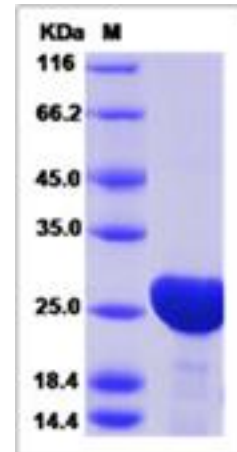
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## References

1.Lu Q, *et al.* (1996) Adenylate kinase complements nucleoside diphosphate kinase deficiency in nucleotide metabolism. *Proc Natl Acad Sci.* 93 (12): 5720-5. 2.Dzeja P, *et al.* (2009) Adenylate kinase and AMP signaling networks: Metabolic monitoring, signal communication and body energy sensing. *Int J Mol Sci.* 10 (4): 1729-72. 3.Lagresle-Peyrou C, *et al.* (2008) Human adenylate kinase 2 deficiency causes a profound hematopoietic defect associated with sensorineural deafness. *Nature Genetics.* 41: 106 - 11.

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