

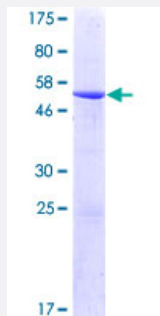
Full-Length

AK3L1 (Human) Recombinant Protein (P02)

Catalog # H00000205-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AK3L1 full-length ORF (NP_001002921.1, 1 a.a. - 223 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MASKLLRAVILGPPGSGKGTVCQRIQNFGQLHLSSGHFLRENIKASTEVGEMAKQYIEKSLLVPD HVITRLMMSELENRRGQHWLLDGFPRTLGQAEALDKICEVDLVISLNIPFETLKDRLSRRWIHPPSG RVYNLDFNPPHVHGIDDTGEPLVQQEDDKPEAVAARLRQYKDVAKPVIELYKSRGVLHQFSGTE TNKIWPYVYTLFSNKITPIQSKEAY
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	51.7
Interspecies Antigen Sequence	Mouse (90); Rat (89)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — AK3L1

Entrez GeneID [205](#)

GeneBank Accession# [NM_001002921.1](#)

Protein Accession# [NP_001002921.1](#)

Gene Name AK3L1

Gene Alias AK3, AK4, MGC166959

Gene Description adenylate kinase 3-like 1

Omim ID [103030](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations ATP-AMP transphosphorylase|GTP:AMP phosphotransferase|OTTHUMP00000010594|mitochondrial adenylate kinase-3|nucleoside-triphosphate-adenylate kinase

Pathway

- [Metabolic pathways](#)
- [Purine metabolism](#)

Disease

- [Tobacco Use Disorder](#)