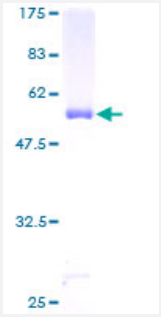
Full-Length

AK3L1 (Human) Recombinant Protein (P01)

Catalog # H00000205-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AK3L1 full-length ORF (AAH16180, 1 a.a. - 223 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	MASKLLRAVILGPPGSGKGTVCQRIAQNFGLQHLSSGHFLRENIKASTEVGEMAKQYIEKSLLVPD HVITRLMMSELENRRGQHWLLDGFPRTLGQAEALDKICEVDLVISLNIPFETLKDRLSRRWIHPPSG RVYNLDFNPPHVHGIDDVTGEPLVQQEDDKPEAVAARLRQYKDVAKPVIELYKSRGVLHQFSGTE TNKIWPYVYTLFSNKITPIQSKEAY
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	50.27
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#	BC016180
Protein Accession#	AAH16180
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 l ocalized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleoti de compositions within a cell by catalyzing the reversible transfer of phosphate group among thes e 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 h as been located on chromosome 17. Three transcript variants encoding the same protein have be en identified for this gene. Sequence alignment suggests that the gene defined by NM_013410, N M_203464, and NM_001005353 is located on chromosome 1. [provided by RefSeq
Other Designations	ATP-AMP transphosphorylase|GTP:AMP phosphotransferase|OTTHUMP00000010594|mitochon drial adenylate kinase-3|nucleoside-triphosphate-adenylate kinase

Pathway

- Metabolic pathways
- Purine metabolism

Disease

- Tobacco Use Disorder