

Product datasheet for PH320572

AK3L1 (AK4) (NM_013410) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AK3L1 MS Standard C13 and N15-labeled recombinant protein (NP_037542)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220572
Predicted MW:	25.1 kDa
Protein Sequence:	>RC220572 representing NM_013410 Red =Cloning site Green =Tags(s) MASKLLRAVILGPPGSGKGTVCQRIAQNFGLQHLSSGHFLRENIKASTEVGEMAKQYIEKSLLVDPDHVIT RLMSELENRRGQHWLLDGFPRTLGQAEALDKICEVDLVISLNIPFETLKDRLSRRWIHPPSGRVYNLDF NPPHVHGIDDVTGEPLVQQEDDKPEAVAARLRQYKDVAKPVIELYKSRGVLHQFSGTETNKIWPYVYTLF SNKITPIQSKEY TR TRPLE QKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_037542
RefSeq Size:	2199
RefSeq ORF:	669
Synonyms:	AK3; AK3L1; AK3L2; AK 4
Locus ID:	205
UniProt ID:	P27144



[View online »](#)

Cytogenetics: 1p31.3

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, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

Product images:



Coomassie blue staining of purified AK4 protein (Cat# [TP320572]). The protein was produced from HEK293T cells transfected with AK4 cDNA clone (Cat# [RC220572]) using MegaTran 2.0 (Cat# [TT210002]).