

# **Product datasheet for PH320572**

## OriGene Technologies, Inc.

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### 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:HumanExpression Host:HEK293

Expression cDNA Clone

RC220572

or AA Sequence: Predicted MW:

25.1 kDa

Protein Sequence: >RC220572 representing NM\_013410

Red=Cloning site Green=Tags(s)

MASKLLRAVILGPPGSGKGTVCQRIAQNFGLQHLSSGHFLRENIKASTEVGEMAKQYIEKSLLVPDHVIT RLMMSELENRRGQHWLLDGFPRTLGQAEALDKICEVDLVISLNIPFETLKDRLSRRWIHPPSGRVYNLDF NPPHVHGIDDVTGEPLVQQEDDKPEAVAARLRQYKDVAKPVIELYKSRGVLHQFSGTETNKIWPYVYTLF

SNKITPIQSKEAY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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: <u>P27144</u>





Cytogenetics: 1p31.3

Summary: This gene encodes a member of the adenylate kinase family of enzymes. The encoded

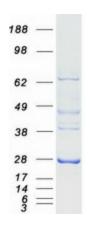
protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression 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]).