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Product datasheet for PH309974

AK2 (NM_001625) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AK2 MS Standard C13 and N15-labeled recombinant protein (NP_001616)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209974
Predicted MW:	26.5 kDa
Protein Sequence:	>RC209974 protein sequence Red=Cloning site Green=Tags(s) MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVASGSELGKKLKATMDA GKLVSDEMVVELIEKNLETPLCKNGFLLDGFPRTVRQAEMLDDLMEKRKEKLDSVIEFSIPDSLLIRRIT GRLIHPKSGRSYHEEFNPPKEPMKDDITGEPLIRRSDDNEKALKIRLQAYHTQTTPLIEYYRKRGIHSAI DASQTPDVVFASILAAFSKATCKDLVMFI 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_001616
RefSeq Size:	2759
RefSeq ORF:	717
Synonyms:	ADK2
Locus ID:	204
UniProt ID:	P54819, A0A140VK93

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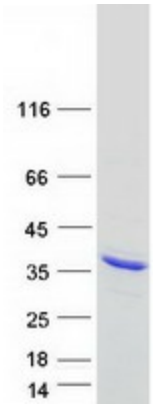
Cytogenetics: 1p35.1

Summary: Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. Three isozymes of adenylate kinase, namely 1, 2, and 3, have been identified in vertebrates; this gene encodes isozyme 2. Expression of these isozymes is tissue-specific and developmentally regulated. Isozyme 2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis. Mutations in this gene are the cause of reticular dysgenesis. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 1 and 2.[provided by RefSeq, Nov 2010]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

Product images:



Coomassie blue staining of purified AK2 protein (Cat# [TP309974]). The protein was produced from HEK293T cells transfected with AK2 cDNA clone (Cat# [RC209974]) using MegaTran 2.0 (Cat# [TT210002]).