

Product datasheet for **TP315130L**

Adenylate Kinase 1 (AK1) (NM_000476) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human adenylate kinase 1 (AK1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215130 representing NM_000476 Red =Cloning site Green =Tags(s)
	 MEEKLKKTKIIFVVGPGSGKGTQCEKIVQKYGYTHLSTGDLLRSEVSSGSARGKKLSEIMEKGQLVPLE TVLDMLRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLYVDAGPETMTQRLKRGESGRVD DNEETIKRLETTYKATEPVIAFYEKRGIVRKVNAEGSVDSVFSQVCTHLDALK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	21.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_000467</u>
Locus ID:	203
UniProt ID:	<u>P00568</u> , <u>Q6FGX9</u>
RefSeq Size:	2271



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Cytogenetics: 9q34.11

RefSeq ORF: 582

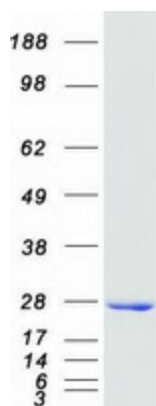
Synonyms: HTL-S-58j

Summary: This gene encodes an adenylate kinase enzyme involved in energy metabolism and homeostasis of cellular adenine nucleotide ratios in different intracellular compartments. This gene is highly expressed in skeletal muscle, brain and erythrocytes. Certain mutations in this gene resulting in a functionally inadequate enzyme are associated with a rare genetic disorder causing nonspherocytic hemolytic anemia. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

Product images:



Coomassie blue staining of purified AK1 protein (Cat# [TP315130]). The protein was produced from HEK293T cells transfected with AK1 cDNA clone (Cat# [RC215130]) using MegaTran 2.0 (Cat# [TT210002]).