

Product datasheet

Recombinant mouse AK 1 protein (Active) ab227415

1 Image

Description

Product name	Recombinant mouse AK 1 protein (Active)
Biological activity	Specific activity is > 150 units/mg. One unit will convert 2.0 μ moles of ADP to ATP + AMP per minute at pH 7.5 at 37°C.
Purity	> 90 % SDS-PAGE. ab227415 was purified by using conventional chromatography techniques.
Endotoxin level	< 1.000 Eu/ μ g
Expression system	Escherichia coli
Accession	<u>Q9R0Y5-2</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	MGSSHHHHHSSGLVPRGSHMGSMGCCVSSEPQEEGG RKTGEKLLKAKII FVVGPGSGKGTQCEKIVQKYGYTHLSTGDLLRAEVSSG SERGKKLSAIM EKGELVPLDVLDMRLDAMLAKVDSSNGFLIDGYPREVK QGEEFEQKIGQ PTLLLYVDAGAETMTQRLKRGETSGRVDDNEETIKKRLE TYNATEPVI SFYDKRGIVRKVNAEGTVDTVFSEVCTYLDSLK
Predicted molecular weight	26 kDa including tags
Amino acids	1 to 210
Tags	His tag N-Terminus
Additional sequence information	NP_067490

Specifications

Our **Abpromise guarantee** covers the use of **ab227415** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Functional Studies

	Mass Spectrometry
	SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	Previously labelled as Adenylate Kinase 1.

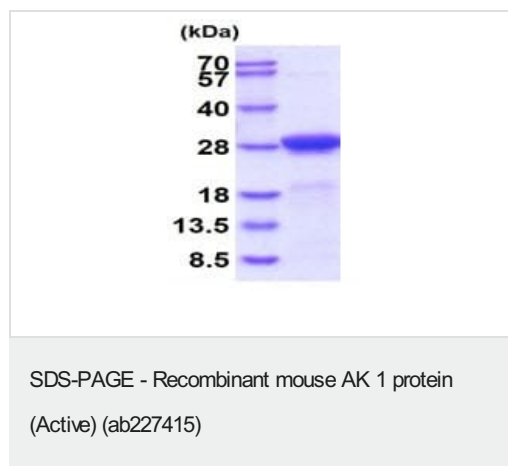
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.02% DTT This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

Function	Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Small ubiquitous enzyme involved in energy metabolism and nucleotide synthesis that is essential for maintenance and cell growth.
Involvement in disease	Defects in AK1 are the cause of hemolytic anemia due to adenylate kinase deficiency [MIM:612631].
Sequence similarities	Belongs to the adenylate kinase family.
Cellular localization	Cytoplasm.

Images



15% SDS-PAGE analysis of 3 µg Recombinant mouse AK 1 protein (Active) (ab227415).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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