

Datasheet for ABIN7548659

Adenylate Kinase 5 Protein (AK5) (AA 1-562) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Adenylate Kinase 5 (AK5)
Protein Characteristics:	AA 1-562
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Adenylate Kinase 5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AK5 Protein expressed in mammalian cells.
Sequence:	<p>MNTNDAKEYL ARREIPQLFE SLLNGLMCSK PEDPVEYLES CLQKVKEG CDKVKWDTFV</p> <p>SQEKKTLPPL NGGQSRRSFL RNVMPNSNF PYRRYDRLPP IHQFSIESDT DLSETAELIE</p> <p>EYEVDPTRP RPKIILVIGG PGSGKGTQSL KIAERYGFQY ISVGELLRKK IHSTSSNRKW</p> <p>SLIAKIITTG ELAPQETTIT EIKQKLMQIP DEEGIVIDGF PRDVAQALSF EDQICTPDLV VFLACANQRL</p> <p>KERLLKRAEQ QGRPDDNVKA TQRRLMNFQ NAAPLVKYFQ EKGLIMTFDA DRDEDEVFYD</p> <p>ISMAVDNKL FPNKEAAAGSS DLDPSMILDT GEIIDTGSDY EDQGDDQLNV FGEDTMGGFM</p> <p>EDLRKCKIIF IIGGPGSGKG TQCEKLVEKY GFTHLSTGEL LREELASESE RSKLIRDIME</p> <p>RGDLVPSGIV LELLKEAMVA SLGDTRGFLI DGYPREVKQG EEFGRIGDP QLVICMDCSA</p> <p>DTMTNRLLQR SRSSLPVDDT TKTIKRLEA YYRASIPVIA YYETKTQLHK INAEPTPEDV</p> <p>FLQLCTAIDS IF Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make</p>

another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

Adenylate Kinase 5 (AK5)

Alternative Name:

AK5 ([AK5 Products](#))

Background:

Adenylate kinase isoenzyme 5 (AK 5) (EC 2.7.4.3) (EC 2.7.4.6) (ATP-AMP transphosphorylase 5), FUNCTION: Nucleoside monophosphate (NMP) kinase that catalyzes the reversible transfer of the terminal phosphate group between nucleoside triphosphates and monophosphates. Active on AMP and dAMP with ATP as a donor. When GTP is used as phosphate donor, the enzyme phosphorylates AMP, CMP, and to a small extent dCMP. Also displays broad nucleoside diphosphate kinase activity. {ECO:0000269|PubMed:19647735, ECO:0000269|PubMed:23416111}.

Molecular Weight:

63.3 kDa

UniProt:

[Q9Y6K8](#)

Pathways:

[Nucleotide Phosphorylation](#), [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months