

Recombinant human AK5 protein

Catalog Number: ATGP1263

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-562aa

UniProt No.

Q9Y6K8

NCBI Accession No.

AAH36666

Alternative Names

Adenylate kinase isoenzyme 5, AK6

PRODUCT SPECIFICATION

Molecular Weight

65.9 kDa (586aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

AK5, also known as adenylate kinase isoenzyme 5, is a member of the adenylate kinase family, which is involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. This member is related to the uMP/CMP kinase of several species. It is located in the cytosol and expressed exclusively in brain. Recombinant human AK5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

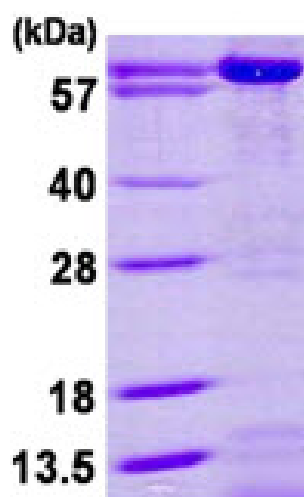
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PTRPRPKIIL VIGGPGSGKG TQSLKIAERY GFQYISVGEL LRKKIHSTSS NRKWSLIAKI ITTGELAPQE TTITEIKQKL
MQIPDEEGIV IDGFPRDVAQ ALSFEDQICT PDLVVFLACA NQRLKERLLK RAEQQGRPDD NVKATQRRML NFKQNAAPLV
KYFQEKGLIM TFDADRDEDE VFYDISMAVD NKLFPNKEAA AGSSDLDPSP ILDTGEIIDT GSDYEDQGDD QLNVFGEDTM
GGFMEDLRKC KIIFIIGGPG SGKGTQCEKL VEKYGFTHLS TGELLREELA SESERSKLIR DIMERGDLPV SGIVLELLKE
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PVIAYYETKT QLHKINAEGT PEDVFLQLCT AIDSIF

General References

Van Rompay A.R., et al. (1999) Eur. J. Biochem. 261:509-517
Solaroli N., et al. (2009) FEBS Lett. 583(17):2872-6

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)