

Product information



AK5, 1-562aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1263

Full name: Adenylate kinase isoenzyme 5

NCBI Accession No.: AAH36666

Synonyms: AK6

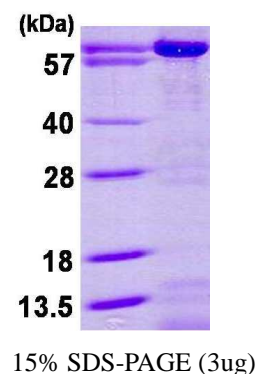
Description: AK5, also known as adenylate kinase isoenzyme 5, is a member of the adenylate kinase family, which is involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. This member is related to the 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.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol,
1mM DTT

Molecular Weight: 65.9 kDa (586aa)

Purity: > 85% by SDS - PAGE

Concentration: 0.25 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSHMNTNDA KEYMARREIP QLFESLLNGL MCSKPEDPVE YLESC LQKVK ELGGCDKVKW DTFVSEQEKT
LPPLNGGQSR RSFLRNVM PG NSNFPYRRYD RLPPIHQFSI ESDTDLSETA ELIEEYEVFD PTRPRPKIIL VIGGPGSGKG TQSLKIAERY
GFQYISVGEL LRKKIHSTSS NRKWSLIAKI ITTGELAPQE TTITEIKQKL MQIPDEEGIV IDGFPRDVAQ ALSFEDQICT PDLVVFLACA
NQRLKERLLK RAEQQGRPDD NVKATQRRML NFKQNAAPLV KYFQEKGLIM TFDADRDEDE VFYDISMAVD NKLFPNKEAA AGSSDLDPSM
ILDGTGEI IDT GSDYEDQGDD QLNVFGEEDTM GGFMEDLRKC KIIFFIIGGPG SGKGTQCEKL VEKYGFT HLS TGELLREELA SESERSKLIR
DIMERGDLPV SGIVLELLKE AMVASLG DTR GFLIDGYPRE VKQGEFGRRI GDPQLVICM DCSADTMTNR LLQRSRSSLP VDDTTKTI AK
RLEAYYRASI 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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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