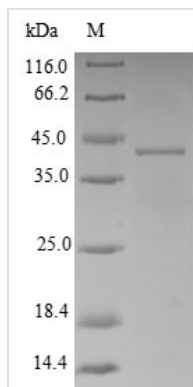




Recombinant Shigella flexneri Adenylate kinase (adk)

Product Code	CSB-EP769467SZB
Relevance	Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism.
Abbreviation	Recombinant Shigella flexneri adk protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q83M40
Alias	ATP-AMP transphosphorylase ATP:AMP phosphotransferase Adenylate monophosphate kinase
Product Type	Recombinant Protein
Immunogen Species	Shigella flexneri
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MRIILLGAPGAGKGTQAQFIMEKYGIPQISTGDMRLRAAVKSGSELGKQAKDIMD AGKLVTDDELVIALVKERIAQEDCRNGFLLDGFPRTIPQADAMKEAGINVDYVLE FDVPDELIVDRIVGRRVHAPSGRVYHVKNPPKVEGKDDVTGEELTTRKDDQE ETVRKRLVEYHQMTAPLIGYYSKEAEAGNTKYAKVDGTKQVAEVRADLEKILG
Research Area	Signal Transduction
Source	E.coli
Target Names	adk
Protein Names	Recommended name: Adenylate kinase Short name= AK EC= 2.7.4.3 Alternative name(s): ATP-AMP transphosphorylase
Expression Region	1-214aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	43.6kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Explore the functionality of *Shigella flexneri* Adenylate Kinase with the Recombinant *Shigella flexneri* adk protein. This full-length protein, comprising the 1-214aa region, is expressed in *E. coli* and exhibits a unique dual-tagging system: an N-terminal 10xHis-SUMO-tag for straightforward purification, and a C-terminal Myc-tag for convenient detection. With a purity level exceeding 90% as determined by SDS-PAGE, this lyophilized powder enables researchers to delve into the role of Adenylate Kinase in signal transduction and expand our understanding of this bacterial enzyme's potential applications.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.