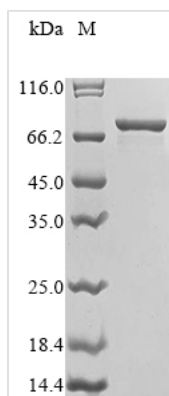




Recombinant Escherichia coli Polyphosphate kinase (ppk)

Product Code	CSB-EP358948ENV
Abbreviation	Recombinant E.coli ppk 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.	P0A7B1
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Escherichia coli (strain K12)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	GQEKLYIEKELSWLSFNERNVLQEAADKSNPLIERMRFLGIYSNNLDEFYKVRFA ELKRRIIIEEQGSNSHSRHLGKIQSRVLKADQEFDGLYNELLLEMARNQIFLIN ERQLSVNQQNWLRRHYFKQYLRQHITPILINPDTDLVQFLKDDYTYLAVEIIRGDT IRYALLEIPSDKVPRFVNLPPEAPRRRKPMILLDNILRYCLDDIFKGFFDYDALNA YSMKMTRDAEYDLVHEMEASLMELMSSSLKQRLTAEPVRFVYQRDMPNALVE VLREKLTISRYDSIVPGGRYHNFKDFINFPNVGKANLVNKPLPRLRHIWFDKAQ FRNGFDAIRERDVLLYYPYHTFEHVLELLRQASFDPSVLAIKINIYRVAKDSRIID SMIHAAHNGKKVTVVVELQARFDEEANIHWAKRLTEAGVHVIFSAPGLKIHAKL FLISRKENGEEVRYAHIGTGNFNEKTARLYTDYSLLTADARITNEVRRVFNFIEN PYRPVTFDYL MVSPQNSRRLLYEMVDREIANAQQGLPSGITLKLNNLVDKGLV DRLYAASSSGVPVNLLVRGMCSLIPNLEGISDNIRAISIVDRYLEHDRVYIFENG GDKKVYLSSADWMTRNIDYRIEIVATPLLDPRLKQRVLDIIDILFSDTVKARYIDKE LSNRYVPRGNRRKVRAQLAIYDYIKSLEQPE
Research Area	Cell Biology
Source	E.coli
Target Names	ppk
Expression Region	2-688aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	84.4 kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

To prepare this Recombinant E.coli K12 ppk protein, the recombinant DNA was required, which was generated by fusing the ppk gene with N-terminal 6xHis tag sequence. Once the recombinant DNA was amplified and purified, a protein expression system, E.coli, was needed for this ppk protein production. After purification, a premium ppk recombinant protein was obtained. According to SDS-PAGE, its purity turns out to be 85%+.

ppk is a gene providing an instruction in making a protein named polyphosphate kinase. The encoded protein, also known as ATP-polyphosphate phosphotransferase or polyphosphoric acid kinase, is an enzyme that catalyzes the reversible transfer of phosphate molecules between ATP and polyphosphate (poly (P)). Emerging studies have found that the PPK catalyzes the kination of not only ADP but also other nucleoside diphosphates (NDPs) using poly(P) as a phosphate donor, yielding nucleotide triphosphates (NTPs). This protein is involved in three biological processes, including ATP generation from ADP, polyphosphate biosynthetic process and protein autophosphorylation.

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.