

Polyphosphate kinase Protein, E. coli, Recombinant (His & Myc)

General Information

Synonyms:	Polyphosphate kinase;ppk;ATP-polyphosphate phosphotransferase;Polyphosphoric acid kinase
Protein Construction:	2-688 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	P0A7B1
Molecular Weight:	87.7 kDa (predicted)
AA Sequence:	GQEKLIEKELSWLSFNERVLQEAADKSNPLIERMRFLGIYSNNLDEFYKVRFAELKRRIISEEQGSNSHSRHL GKIQSRVLKADQEFDGLYNELLEMARNQIFLINERQLSVNQQNWLRYHFKQYLRQHITPILINPDTDLVQFLK DDYTYLAVEIIRGDTIRYALLEIPSDKVPRFVNLPEAPRRRKPMILLDNILRYCLDDIFKGGFDYDALNAYSMKM TRDAEYDLVHEMEASLMELMSSSLKQRLTAEPVRFVYQRDMPNALVEVLREKLTISRYSIVPGGRYHNFKDF INFPNVGKANLVNKPLPRLRHIWFDKAQFRNGFDAIRERDVLLYYPYHTFEHVLELLRQASFDPSVLAIKINIYR VAKDSRIIDSMIHAAHNGKKTVVVELQARFDEEANIHWAKRLTEAGVHVIFSAAPGLKIHAKLFLISRKENGEV VRYAHIGTGNFNEKTARLYTDYSLTADARITNEVRRVFNFIENPYRPVTFDYLMVSPQNSRRLLYEMVDREIA NAQQGLPSGITLKLNNLVKGLVDRLYAASSSGVPVNLVRGMCSLIPNLEGISDNIRASIVDRYLEHDRVYIF ENGGDKKVVYLSSADWMTRNIDYRIEVATPLLDPRLKQRVLDIIDILFSDTVKARYIDKELSNRYVPRGNRRKVR AQLAIYDIKSLEQPE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes the reversible transfer of the terminal phosphate of ATP to form a long-chain polyphosphate (polyP). Can form linear polymers of orthophosphate with chain lengths up to 1000 or more. Can use GTP instead of ATP, but the efficiency of GTP is 5% that of ATP. Also exhibits several other enzymatic activities, which include: ATP synthesis from polyP in the presence of excess ADP, general nucleoside-diphosphate kinase activity, linear guanosine 5'-tetraphosphate (ppppG) synthesis and autophosphorylation.

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