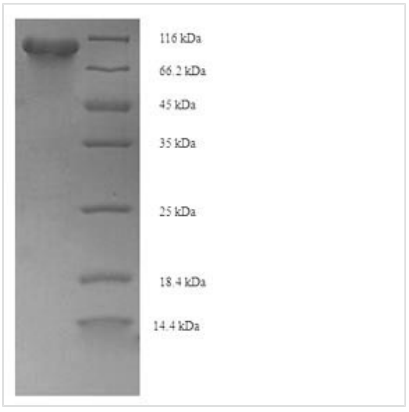
Recombinant Escherichia coli Phosphoenolpyruvate synthase (ppsA)

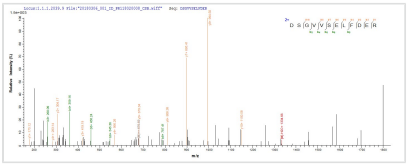
Product Code	CSB-EP332921ENV
Relevance	Catalyzes the phosphorylation of pyruvate to phosphoenolpyruvate.
Abbreviation	Recombinant E.coli ppsA protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, 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.	P23538
Alias	Pyruvate, water dikinase
Product Type	Recombinant Protein
Immunogen Species	Escherichia coli (strain K12)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SNNGSSPLVLWYNQLGMNDVDRVGGKNASLGEMITNLSGMGVSVPNGFATT ADAFNQFLDQSGVNQRIYELLDKTDIDDVTQLAKAGAQIRQWIIDTPFQPELEN AIREAYAQLSADDENASFAVRSSATAEDMPDASFAGQQETFLNVQGFDAVLV AVKHVFASLFNDRAISYRVHQGYDHRGVALSAGVQRMVRSDLASSGVMFSID TESGFDQVVFITSAWGLGEMVVQGAVNPDEFYVHKPTLAANRPAIVRRTMGS KKIRMVYAPTQEHGKQVKIEDVPQEQRDIFSLTNEEVQELAKQAVQIEKHYGR PMDIEWAKDGHTGKLFIVQARPETVRSRGQVMERYTLHSQGKIIAEGRAIGHRI GAGPVKVIHDISEMNRIEPGDVLVTDMTDPDWEPIMKKASAIVTNRGGRTCHA AIIARELGIPAVVGCGDATERMKDGENVTVSCAEGDTGYVYAELLEFSVKSSSV ETMPDLPLKVMMNVGNPDRAFDFACLPNEGVGLARLEFIINRMIGVHPRALLE FDDQEPQLQNEIREMMKGFDSPREFYVGRLTEGIATLGAAFYPKRVIVRLSDF KSNEYANLVGGERYEPDEENPMLGFRGAGRYVSDSFRDCFALECEAVKRVR NDMGLTNVEIMIPFVRTVDQAKAVVEELARQGLKRGENGLKIIMMCEIPSNALL AEQFLEYFDGFSIGSNDMTQLALGLDRDSGVVSELFDERNDAVKALLSMAIRA AKKQGKYVGICGQGPSDHEDFAAWLMEEGIDSLSLNPDTVVQTWLSLAELKK
Research Area	Others
Source	E.coli
Target Names	ppsA
Protein Names	Recommended name: Phosphoenolpyruvate synthase Short name= PEP synthase EC= 2.7.9.2 Alternative name(s): Pyruvate, water dikinase
Expression Region	2-792aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged

Mol. Weight	103.3kDa
Protein Length	Full Length of Mature Protein

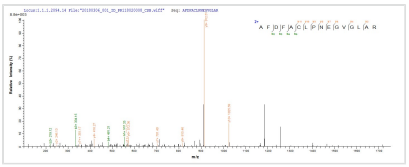
Image



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP332921ENV could indicate that this peptide derived from E.coli-expressed Escherichia coli (strain K12) ppsA.



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Description

The construction of a plasmid coding for the Escherichia coli (strain K12) ppsA protein (2-792aa) is the initial step for the preparation of the recombiant Escherichia coli (strain K12) ppsA protein. The next is to transform the constructed plasmid into e.coli cells. e.coli cells containing the plasmid are screened and then cultured under conditions that promote the expression of the gene of interest. The protein is equipped with a N-terminal 6xHis-SUMO tag. After that, affinity purification is used to isolate and purify the recombinant ppsA protein from the cell lysate. Finally, the resulting recombinant ppsA protein undergoes SDS-PAGE analysis, demonstrating a purity greater than 90%.

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

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