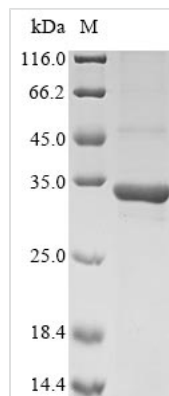




# Recombinant Chlorobium tepidum Polyphosphate kinase 2 (ppk2), partial

|                          |                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-EP525512DST                                                                                                                                                                                                                                                                 |
| <b>Abbreviation</b>      | Recombinant Chlorobaculum tepidum ppk2 protein, partial                                                                                                                                                                                                                         |
| <b>Storage</b>           | 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. |
| <b>Uniprot No.</b>       | O68984                                                                                                                                                                                                                                                                          |
| <b>Form</b>              | Liquid or Lyophilized powder                                                                                                                                                                                                                                                    |
| <b>Storage Buffer</b>    | If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.                                                      |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                             |
| <b>Immunogen Species</b> | Chlorobaculum tepidum (strain ATCC 49652 / DSM 12025 / NBRC 103806 / TLS) (Chlorobium tepidum)                                                                                                                                                                                  |
| <b>Purity</b>            | Greater than 85% as determined by SDS-PAGE.                                                                                                                                                                                                                                     |
| <b>Sequence</b>          | EQQQLLQH YFRKEVFPVLTPLAFDTGHPFPFMSNLSLNLAI ELEDEESGAIKFA<br>RVKVP GILSRIIRLDQIEGLGFDDGRIRLLWLEDLVEHNLDQLFPKMRILQCHPF<br>RIIRDADIEIEEDEAGDLLIESIEQGVRSSRRYGKVVRLDINPDMPHSIRSLLVKNLE<br>TYERNVYEIGGVLGMSALMELLKIDRPDLKDELFVPNNP                                                   |
| <b>Research Area</b>     | others                                                                                                                                                                                                                                                                          |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                          |
| <b>Target Names</b>      | ppk2                                                                                                                                                                                                                                                                            |
| <b>Expression Region</b> | 140-343aa                                                                                                                                                                                                                                                                       |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                             |
| <b>Tag Info</b>          | N-terminal 10xHis-tagged and C-terminal Myc-tagged                                                                                                                                                                                                                              |
| <b>Mol. Weight</b>       | 34.4 kDa                                                                                                                                                                                                                                                                        |
| <b>Protein Length</b>    | Partial                                                                                                                                                                                                                                                                         |
| <b>Image</b>             |                                                                                                                                                                                                                                                                                 |



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

## Description

To achieve the expression of the recombinant *Chlorobaculum tepidum* (strain ATCC 49652 / DSM 12025 / NBRC 103806 / TLS) ppk2 protein in *e.coli* cells, a DNA fragment encoding the *Chlorobaculum tepidum* (strain ATCC 49652 / DSM 12025 / NBRC 103806 / TLS) ppk2 protein (140-343aa) is inserted into a plasmid vector, which is then transferred to *e.coli* cells. After screening positive cells, they are cultured and induced to create the ppk2 protein. The protein features a N-terminal 10xHis tag and C-terminal Myc tag fusion. The recombinant *Chlorobaculum tepidum* (strain ATCC 49652 / DSM 12025 / NBRC 103806 / TLS) ppk2 protein is purified from the cell lysate through affinity purification. The purity of the obtained recombinant *Chlorobaculum tepidum* (strain ATCC 49652 / DSM 12025 / NBRC 103806 / TLS) ppk2 protein is greater than 85%, measured by SDS-PAGE.

## 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.