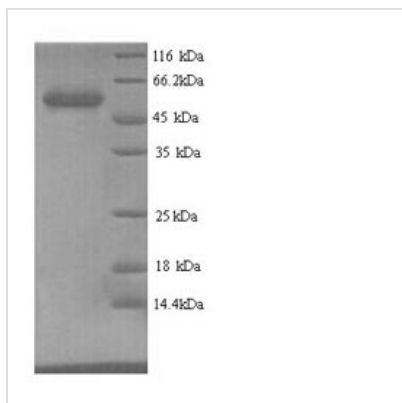




# Recombinant Escherichia coli Aerobic glycerol-3-phosphate dehydrogenase (glpD)

|                          |  |
|--------------------------|--|
| <b>Product Code</b>      | CSB-YP320174ENV  |
| <b>Relevance</b>         | Conversion of glycerol 3-phosphate to dihydroxyacetone. Uses molecular oxygen or nitrate as electron acceptor.   |
| <b>Abbreviation</b>      | Recombinant E.coli glpD protein  |
| <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>       | P13035   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Escherichia coli (strain K12)  |
| <b>Purity</b>            | Greater than 90% as determined by SDS-PAGE.  |
| <b>Sequence</b>          | METKDLIVIGGGINGAGIAADAAGRGLSVLMLEAQDLACATSSASSKLIHGGLR<br>YLEHYEFRLVSEALAEREVLLKMAPHIAFPMRFRLPHRPHLRPAWMIRIGLFMY<br>DHLGKRTSLPGSTGLRFGANSVLKPEIKRGFEYSDCWVDDARLVLANAQMVV<br>RKGGEVLTRTRATSARRENLWIVEAEDIDTGKKYSWQARGLVNATGPWVKQ<br>FFDDGMHLPSPYGIKSHIVVPRVHTQKQAYILQNEKRVFVWPMDEFSSII<br>GTTDVEYKGDPAVKIEESEINYNLLNVYNTHFKKQLSRDDIVWTYSGVRPLCDD<br>ESDSPQAITRDYTLDIHDENGKAPLLSVFGGKLTTRYKLAEHALEKLTPYYQGI<br>GPAWTKESVLPGGAIEGDRDDYAARLRRRYPFLTESLARHYARTYGSNSELLL<br>GNAGTVSDLGEDFGHEFYEAELKYLVDHEWVRRADDALWRRTKQGMWLNA<br>DQQRVSVQWLVEYTQQRLSLAS |
| <b>Research Area</b>     | Others   |
| <b>Source</b>            | Yeast  |
| <b>Target Names</b>      | glpD   |
| <b>Protein Names</b>     | Recommended name: Aerobic glycerol-3-phosphate dehydrogenase EC=1.1.5.3  |
| <b>Expression Region</b> | 1-501aa  |
| <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 6xHis-tagged  |
| <b>Mol. Weight</b>       | 58.8kDa  |
| <b>Protein Length</b>    | Full Length  |

Image



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

### 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  $-20^{\circ}\text{C}/-80^{\circ}\text{C}$ . Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

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