

# Recombinant Escherichia coli GLCB Protein (2-723 aa), His-tagged

**Cat. No.** GLCB-2133E    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Escherichia coli (strain K12) GLCB Protein (2-723 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal.<br>Research Area: Microbiology. Protein Description: Full Length of Mature Protein.                                                                                                                                                                                         |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 2-723 aa                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Involved in the glycolate utilization. Catalyzes the condensation and subsequent hydrolysis of acetyl-coenzyme A (acetyl-CoA) and glyoxylate to form malate and CoA.                                                                                                                                                                                                                                                                              |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 84.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | SQTITQSRLRIDANFKRFVDEEVLP GTGLDAAFWRNFD EIVHDLAPENRQLLAERD<br>RIQAALDEWHRSNPGPVKDKAAYKSFLRELGYLVPQPERVT VETT GIDSEITSQAGP<br>QLVVPAMNARYALNAANARWGS LYDALYGSDIIPQEGAMVSGYDPQRGEQVIWV<br>RRFLDESLPLENGSYQDVVAFKVVDKQLRIQLKNGKETTLRTPAQFVG YRGDAAAP<br>TCILLKNNGLHIELQIDANGRIGKDDPAHINDVIVEAAISTILDCEDSVA AVDAEDKILLY<br>RNLLGLMQGTLQE KMEKNGRQIVRKLND DRHYTAADGSEISLHGRSLLFIRNVGHL<br>MTIPVIWDSEGNEIPEGILDGVM TGAIALYDLKVQKNSRTGSVYIVKPKMHGPQE VAF |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ANKLFTRIETMLGMAPNTLKMGMIMDEERRTSLNLRSCIAQARNRVAFINTGFLDRTG  
 DEMHSVMEAGPMLRKNQMKSTPWIKAYERNNVLSGLFCGLRGKAQIGKGMWAMP  
 DLMADMYSQKGDQLRAGANTAWVPSPAATLHALHYHQTNVQSVQANIAQTEFNA  
 EFEPLDLLLTIPVAENANWSAQEIQQELDNNVQGILGYVVRWVEQGIGCSKVPDIH  
 NVALMEDRATLRISQHIANWLRHGILTKEQVQASLENMAKVVDQQNAGDPAYRPM  
 AGNFANSFAKAASDLIFLGVKQPNGYTEPLLHAWRLREKESH

**Purity** > 90% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration** A hardcopy of COA with reconstitution instruction is sent along with the products.

## GENE INFORMATION

**Gene Name** [glcB malate synthase G \[ Escherichia coli str. K-12 substr. MG1655 \]](#)

**Official Symbol** [GLCB](#)

**Synonyms** glcB; ECK2970; glc;

**Gene ID** [948857](#)

**Protein Refseq** [NP\\_417450](#)

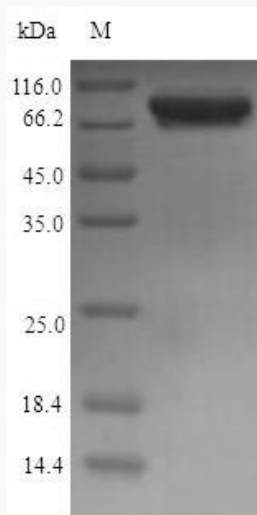
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UniProt ID

P37330



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

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