



Recombinant strain K12 glcB

Protein Product Manual

1. Product Basic Information

Product No.: REP06984

Protein Name: Malate Synthase G (glcB)

Aliases: malate synthase G

UniProt ID: P37330

UniProt Link: <https://www.uniprot.org/uniprotkb/P37330/entry>

Species Source: Escherichia coli (strain K12)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (2-723aa)

Molecular Weight: 84.4kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (2-723aa)

SQTITQSRLRIDANFKRFVDEEVLPGTGLDAAAFWRNFDEIVHDLAPENRQLLAERD
RIQAALDEWHRSNPGPVKDKAAYKSFLRELGYLVPQPERVTVETTIDSEITSQAGP
QLVVPAMNARYALNAANARWGSLYDALYGSDIIPQEGAMVSGYDPQRGEQVIAWV
RRFLDESLPLENGSYQDVVAFKVVQDKQLRIQLKNGKETTLRTPAQFVGYRGDAAAP
TCILLKNNGLHIELQIDANGRIGKDDPAHINDVIVEAAISTILDCEDSVAAVDAEDKILLY
RNLLGLMQGTLQEKMEKNGRQIVRKLNDDRHYTAADGSEISLHGRSLLFIRNVGHL
MTIPVIWDSEGNEIPEGILDGVMTGAIALYDLKVQKNSRTGSVYIVKPKMHGPQEVA
FANKLFTRIETMLGMAPNTLKMGMIMDEERTSLNLRSCIAQARNRVAFINTGFLDRT
GDEMHSVMEAGPMLRKNQMKSTPWIKAYERNNVLSGLFCGLRGKAQIGKGMWAM
PDLMADMYSQKGDQLRAGANTAWVPSPTAATLHALHYHQTNVQSVQANIAQTEFN
AEFEPLLDLLTIPVAENANWSAQEIQQELDNNVQGILGYVVRWVEQGIGCSKVPDI
HNVALMEDRATLRISSQHIANWLRHGILTKEQVQASLENMAKVVDQQNAGDPAYRP
MAGNFANSCAFKAASDLIFLGVKQPNGYTEPLLHAWRLREKESH

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements)

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant strain K12 glcB full length of mature protein protein (2-723aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. glcB, also known as malate synthase G, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.