



Recombinant strain K12 dgcQ Protein Product Manual

1. Product Basic Information

Product No.: REP06661

Protein Name: Diguanylate Cyclase Dgcq (dgcQ)

Aliases: diguanylate cyclase DgcQ

UniProt ID: P76330

UniProt Link: <https://www.uniprot.org/uniprotkb/P76330/entry>

Species Source: Escherichia coli (strain K12)

Expression System: E.coli

Protein Length: Partial (381-564aa)

Molecular Weight: 47.5kDa

Protein Tag: N-terminal GST-tagged

2. Amino Acid Sequence (381-564aa)

RRMVSNMYVLQSSLQWQAWHDTLTRLYNRGALFEKARPLAKLCQTHQHFPFSVIQV
DLDFHFKAINDRFGHQAGDRVLSHAAGLISSSLRAQDVAGRVGGEEFCVILPGASLTE
AAEVAERIRLKLNEKEMLIAKSTTIRISASLGVSSSEETGDYDFEQLQSLADRRLYLA
KQAGRNRVFASDNA

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 when placing orders).

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 dgcQ partial protein (381-564aa) expressed in E.coli. The protein is with GST tag at the N-terminus, which facilitates protein purification, detection and identification. dgcQ, also known as diguanylate cyclase DgcQ, 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.