Recombinant strain K12 glsA1 Protein Product Manual

1. Product Basic Information

Product No.: REP06994

Protein Name: Glutaminase A L-Glutamine Amidohydrolase (glsA1)

Aliases: glutaminase A L-glutamine amidohydrolase

UniProt ID: P77454

UniProt Link: https://www.uniprot.org/uniprotkb/P77454/entry

Species Source: Escherichia coli (strain K12)

Expression System: E.coli

Protein Length: Full Length (1-310aa)

Molecular Weight: 62.9 kDa

Protein Tag: N-terminal 6xHis-GST-tagged

2. Amino Acid Sequence (1-310aa)

MLDANKLQQAVDQAYTQFHSLNGGQNADYIPFLANVPGQLAAVAIVTCDGNVYSA
GDSDYRFALESISKVCTLALALEDVGPQAVQDKIGADPTGLPFNSVIALELHGGKPL
SPLVNAGAIATTSLINAENVEQRWQRILHIQQQLAGEQVALSDEVNQSEQTTNFHNR
AIAWLLYSAGYLYCDAMEACDVYTRQCSTLLNTIELATLGATLAAGGVNPLTHKRVL
QADNVPYILAEMMMEGLYGRSGDWAYRVGLPGKSGVGGGILAVVPGVMGIAAFSP
PLDEDGNSVRGQKMVASVAKQLGYNVFKG

3. Storage Buffer

Liquid Delivery Form: Tris-based buffer with 50% glycerol.

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 glsA1 full length protein (1-310aa) expressed in E.coli. The protein is with 6xHis-GST tag at the N-terminus, which facilitates protein purification, detection and identification. glsA1, also known as glutaminase A L-glutamine amidohydrolase, 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.