

## Recombinant E.coli GlS1, His-tagged

**Cat. No.** glsA1-990E    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant E.coli glsA1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-310aa).                                                                                                                         |
| <b>Species</b>                  | E.coli                                                                                                                                                                                                                                                                                    |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                    |
| <b>Description</b>              | GlsA1 (glutaminase1) belongs to the large superfamily of serine-dependent beta-lactamases and penicillin-binding proteins. They are present in most bacteria and eukaryotes and catalyze the hydrolytic deamidation of L-glutamine to L-glutamate and free NH <sub>4</sub> <sup>+</sup> . |
| <b>Form</b>                     | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl                                                                                                                                                                                                     |
| <b>Molecular Weight</b>         | 35.0 kDa (330aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                  |
| <b>Purity</b>                   | > 95% by SDS - PAGE                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>            | 1mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                     |
| <b>Sequences of amino acids</b> | MGSSHHHHHH SSGLVPRGSH MLDANKLQQA VDQAYTQFHS LNGGQNADYI<br>PFLANVPGQL AAVAIVTCDG NVYSAGDSY RFALESISKV CTLALAEDEV<br>GPQAVQDKIG ADPTGLPFNS VIALELHGGK PLSPLVNAGAIATTSLINAE<br>NVEQRWQRIL HIQQQLAGEQ VALSDEVNQS EQTTNFHNRA IAWLLYSAGY                                                        |

 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

LYCDAMEACD VYTRQCSTLL NTIELATLGA TLAAGGVNPL THKRVLQADN  
VPYILAEMMM EGLYGRSGDW AYRVGLPGKS GVGGGILAVV PGVMGIAAFS  
PPLDEDGNSV RGQKMVASVA KQLGYNVFKG

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**GENE INFORMATION****Gene Name**

ybaS glutaminase [ *Escherichia coli* str. K-12 substr. MG1655 ]

**Synonyms**

ybaS; glsA1; ECK0479; JW0474; glutaminase; putative glutaminase; NP\_415018.1

**Gene ID**

946187

**Protein Refseq**

NP\_415018

 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