

glsA1, 1-310aa, E.coli, His tag, E.coli

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3th Edition

Synonyms:Glutaminase1, ybaS,

Description: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 NH₄⁺. Recombinant E.coli glsA1 protein, fused to His-tag at Nterminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,10% glycerol, 100mM NaCl

Molecular Weight:35.0 kDa (330aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMLDANKLQQAVDQAYTQFHSLNGGQNADYIPFLANVPGQLAAVAIVTCDGNVYS
AGDSDYRFALESISKVCTLALALEDVGPQAVQDKIGADPTGLPFNSVIALELHGGKPLSPLVNAGAIATTSLINAENVE
QRWQRILHIQQQLAGEQVALSDEVNQSEQTTNFHNRAIAWLLYSAGYLYCDAMEACDVYTRQCSTLLNTIELATLG
ATLAAGGVNPLTHKRVLQADNPYILAEMMMEGLYGRSGDWAYRVGLPGKSGVGGGILAVVPGVMGIAAFSPPLD
EDGNSVRGQKMVASVAKQLGYNVFKG

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.