
Product Data Sheet

Product Name: GLSA1 E.Coli
 Cat. No.: GP21690
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutaminase 1; ybaS.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MLDANKLQQA VDQAYTQFHS LNGGQNADYI PFLANVPGQL AAVAVTCDG NVYSAGDSY RFALESISKV CTLALALEDV GPQAVQDKIG ADPTGLPFNS VIALELHGGK PLSPLVNAGA IATTSLINAE NVEQRWQRIL HIQQQLAGEQ VALSDEVNQS EQTTNFHNRA IAWLLYSAGY LYCDAMEACD VYTRQCSTLL NTIELATLGA TLAAGGVNPL THKRVLQADN VPYILAEMMM EGLYGRSGDW AYRVGLPGKS GVGGGILAVV PGVMGIAAFS PPLDEDGNSV RGQKMASVA KQLGYNVFKG		
Formulation	The GLSA1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH8.0), 0.1M NaCl, 1mM DTT and 10% glycerol.		

Introduction

GlsA1 is a member of the great superfamily of serine-dependent beta-lactamases and penicillin-binding proteins which exist almost in every bacteria and eukaryotes and catalyze the hydrolytic deamidation of L-glutamine to L-glutamate and free NH₄⁺.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GLSA1 E.Coli Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 330 amino acids (1-310a.a.) and having a molecular mass of 35.0kDa. The GLSA1 is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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