
Product Data Sheet

Product Name: DsbG E.Coli
 Cat. No.: GP25081
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Thiol:disulfide interchange protein dsbG; dsbG; ybdP; b0604; JW0597.		
Amino Acid Sequence	MEELPAPVKA IEKQGITIIK TFDAPGGMKG YLGKYQDMGV TIYLTDPGKH AISGYMYNEK GENLSNTLIE KEIYAPAGRE MWQRMEQSHW LLDGKKDAPV IVYVFADPFC PYCKQFWQQA RPWVDSGKVQ LRTLLVGVK PESPATAAAI LASKDPAKTW QQYEASGGKL KLNVPANVST EQMKVLSDNE KLMDDLGANV TPAIYYMSKE NTLQQAVGLP DQKTLNIIMG NK.		
Formulation	The DsbG protein solution contains 20mM Tris-HCl, pH-8, 2mM EDTA and 10% Glycerol.		

Introduction

Dsb proteins are in charge for the formation and rearrangement of disulfide bonds during the folding of secreted and membrane proteins in bacteria. DsbG has disulfide bond isomerase and chaperone activity. DsbG interacts with refolding intermediates of chemically denatured citrate synthase and prevents their aggregation in vitro. DsbG shares sequence homology with DsbC. DsbG forms a stable periplasmic dimer and displays an equilibrium constant with glutathione comparable with DsbA and DsbC. DsbG is expressed at roughly 25% level of DsbC.

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

Recombinant DsbG produced in E.Coli is a single, non-glycosylated polypeptide chain containing 232 amino acids and having a molecular mass of 25.8 kDa. DsbG is purified

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

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by conventional chromatography techniques.

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