

Recombinant E.Coli Thiol: Disulfide Interchange Protein, Periplasmic

Cat. No. dsbG-4703E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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 by conventional chromatography techniques.
Species	E.coli
Source	E.coli
Description	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.
Form	The DsbG protein solution contains 20mM Tris-HCl, pH-8, 2mM EDTA and 10% Glycerol.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Physical Appearance	Sterile filtered colorless solution.
Amino acid	MEELPAPVKA IEKQGITI IK TFDAPGGMKG YLGKYQDMGV TIYLTDPDGKH

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sequence

AISGYMYNEK GENLSNTLIE KEIYAPAGRE MWQRMEQSHW LLDGKKDAPV
 IVYVFADPFC PYCKQFWQQA RPWVDSGKVQ LRTLLGVGIK PESPATAAAI
 LASKDPAKTW QQYEASGGKL KLNVPANVST EQMKVLSUNE KLMDLGLANV
 TPAIYYMSKE NTLQQAVGLP DQKTLNIIMG NK.

Storage

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.

GENE INFORMATION

Gene Name [dsbG thiol: disulfide interchange protein, periplasmic \[Escherichia coli str. K-12 substr. MG1655 \]](#)

Official Symbol [dsbG](#)

Synonyms dsbG; periplasmic disulfide isomerase/thiol-disulphide oxidase; dsbG periplasmic disulfide isomerase/thiol-disulphide oxidase; ECK0598; JW0597; ybdP

Gene ID [945224](#)

Protein Refseq [NP_415137](#)

UniProt ID [P77202](#)

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