

## DsbG E.Coli

**Description:** 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.

Catalog #: HYP5-031

For research use only.

**Synonyms:** Thiol:disulfide interchange protein dsbG, dsbG, ybdP, b0604, JW0597.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MEELPAPVKA IEKQGITIIEK TFDAPGGMKY YLGKYQDMGV  
TIYLTDPDGKH AISGYMYNEK GENLSNTLIE KEIYAPAGRE MWQRMEQSHW LLDGKKDAPV  
IVYVFADPFC PYCKQFWQQA RPWVDSGKVQ LRTLLVGVIK PESPTAAAAI LASKDPAKTW  
QQYEASGGKL KLNVPANVST EQMKVLSNE KLMDLGGANV TPAIYMSKE NTLQAVGLP  
DQKTLNIIMG NK

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The DsbG protein solution contains 20mM Tris-HCl, pH-8, 2mM EDTA and 10% Glycerol.

### 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.

### Usage:

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### 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.

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