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## Recombinant E.coli dsbG protein

Catalog Number: ATGP0281

#### **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

18-248aa

#### UniProt No.

P77202

#### **NCBI Accession No.**

NP 415137

#### **Alternative Names**

Thiol:disulfide interchange protein dsbG, ybdP, Thiol:disulfide interchange protein dsbG ECK0598, JW0597, Periplasmic disulfide isomerase/thiol disulphide oxidase

## PRODUCT SPECIFICATION

## **Molecular Weight**

25.8 kDa (232aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM EDTA, 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### Tag

Non-Tagged

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

Dsb proteins control the formation and rearrangement of disulfide bonds during the folding of secreted and membrane proteins in bacteria. DsbG, a member of this family, has disulfide bond isomerase and chaperone activity. So DsbG was shown to interact with refolding intermediates of chemically denatured citrate synthase and prevents their aggregation in vitro. In addition to sharing sequence homology with the thiol disulfide exchange protein DsbC, DsbG likewise was shown to form a stable periplasmic dimer and it displays an



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equilibrium constant with glutathione comparable with DsbA and DsbC. DsbG was found to be expressed at approximately 25% the level of DsbC. Recombinant DsbG was expressed in E. coli and purified by conventional chromatography techniques.

## **Amino acid Sequence**

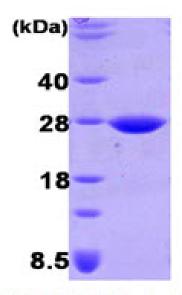
MEELPAPVKA IEKQGITIIK TFDAPGGMKG YLGKYQDMGV TIYLTPDGKH AISGYMYNEK GENLSNTLIE KEIYAPAGRE MWQRMEQSHW LLDGKKDAPV IVYVFADPFC PYCKQFWQQA RPWVDSGKVQ LRTLLVGVIK PESPATAAAI LASKDPAKTW QQYEASGGKL KLNVPANVST EQMKVLSDNE KLMDDLGANV TPAIYYMSKE NTLQQAVGLP DQKTLNIIMG NK

#### **General References**

Riley M., et al (2006) Nucleic Acids Res. 34(1):1-9. Andersen CL., et al (1997) Mol Microbiol. 26(1):121-32

## **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

