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

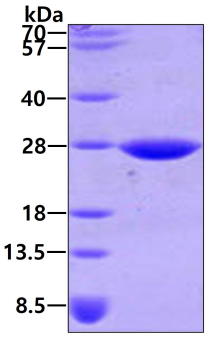
MEELPAPVKA IEKQGITIIK TFDAPGGMKG YLGKYQDMGV TIYLTPDGKH AISGYMYNEK GENLSNTLIE KEIYAPAGRE MWQRMEQSHW LLDGKKDAPV IVYVFADPFC PYCKQFWQQA RPWVDSGKVQ LRTLLVGVIK PESPATAAAI LASKDPAKTW QQYEASGGKL KLNVPANVST EQMKVLSDNE KLMDDLGANV TPAIYYMSKE NTLQQAVGLP DQKTLNIIMG NK

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



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