

Recombinant Periplasmic Disulfide Isomerase/Thiol-Disulphide Oxidase

Cat. No. DsbG-339 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant DsbG was expressed in E.coli and purified by conventional chromatography techniques (232 aa, 25.8 kDa).
Source	E.coli
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 equilibrium constant with glutathione comparable with DsbA and DsbC. DsbG was found to be expressed at approximately 25% the level of DsbC.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 2 mM EDTA, 10% glycerol.
Molecular Weight	25.8 kDa (232 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MEELPAPVKA IEKQGITI IK TFDAPGGMKG YLGKYQDMGV TIYLTDPGKH

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AISGYMYNEK GENLSNTLIE KEIYAPAGRE MWQRMEQSHW LLDGKKDAPV
 IVYVFADPFC PYCKQFWQQA RPWVDSGKVQ LRTLLVGVIK PESPATAAI
 LASKDPAKTW QQYEASGGKL KLNVPANVST EQMKVLSDNE KLMDDLGANV
 TPAIYYMSKE NTLQQAVGLP DQKTLNIIMG NK

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

[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_415137.2](#)

UniProt ID

[P77202](#)

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