

Recombinant E.coli dsbA protein

Catalog Number: HSP0601

PRODUCT INFORMATION

Expression system

E.coli

Domain

20-208aa

UniProt No.

P0AEG4

NCBI Accession No.

NP_418297

Alternative Names

Thiol disulfide interchange protein dsbA, rpbB, ppfA, dsf, DsDNA-binding protein A, dsbA, Double-stranded DNA-binding protein, Disulfide oxidoreductase A periplasmic protein disulfide isomerase I, Disulfide oxidoreductase A, Disulfide oxidoreductase (DsbA) E.coli

PRODUCT SPECIFICATION

Molecular Weight

21.2 kDa (190aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 2mM EDTA

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

Recombinant Disulfide Oxidoreductase (rDsbA), produced from E. coli is a periplasmic protein and thioredoxin superfamily member which introduces disulfide bonds directly into substrate proteins by donating the disulfide bond in its active-site Cys30-Pro31-His32-Cys33 to a pair of cysteines in substrate proteins. DsbA consists of 208 amino acids containing signal peptide (1-19 amino acids). Recombinant DsbA (residues 20-208) was expressed

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in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

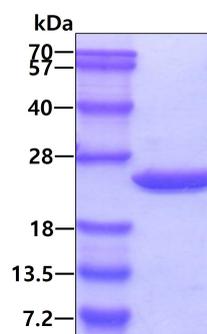
MAQYEDGKQY TTLEKPVAGA PQVLEFFSFF CPHCYQFEV LHSIDNVKKK LPEGVKMTKY HVNFMGGDLG KDLTQAWAVA
MALGVEDKVT VPLFEGVQKT QTIRSASDIR DVFINAGIKG EYDAAWNSF VVKSLVAQQE KAAADVQLRG VPAMFVNGKY
QLNPQGMDS NMDVQVQYA DTVKYLSEKK

General References

Charbonnier, J. B. et al. (1999). Protein Sci. 8:96-105
Inaba, K. et al. (2004). J. Biol. Chem. 279:6761-6768.

DATA

SDS-PAGE



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