

# Recombinant E.Coli Periplasmic Thioredoxin of Cytochrome C-type Biogenesis

**Cat. No.** ccmG-4702E    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant DsbE produced in E.Coli is a single, non-glycosylated polypeptide chain containing 161 amino acids and having a molecular mass of 18.1 kDa. DsbE is purified by conventional chromatography techniques.                                                                                                                                                               |
| <b>Species</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>         | DsbE is a reducing Dsb protein involved in electron transfer for cytochrome c maturation in the periplasm of Escherichia coli. DsbE is one of 12 proteins required for their assembly in the periplasm. DsbE functions is to decrease disulphide bonds formed among correctly paired cysteine residues in the cytochrome c apoproteins prior to haem attachment by CcmF and CcmH. |
| <b>Form</b>                | The DsbE protein solution contains 20mM Tris-HCl, pH-7.5, 2mM EDTA and 10% Glycerol.                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>              | Greater than 95.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                     |
| <b>Physical Appearance</b> | Sterile filtered colorless solution.                                                                                                                                                                                                                                                                                                                                              |
| <b>Amino acid sequence</b> | MRNAEGDDPT NLESALIGKP VPKFRLES LD NPGQFYQADV LTQGKPVLLN<br>VWATWCPTCR AEHQYLNQLS AQGIRVVGMN YKDDRQKAIS WLKELGNPYA<br>LSLFDGDGML GLDLGVYGAP ETFLIDGNGI IRYRHAGDLN PRWEEEEIKP                                                                                                                                                                                                       |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LWEKYSKEAA Q.

#### Storage

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.

### GENE INFORMATION

#### Gene Name

ccmG periplasmic thioredoxin of cytochrome c-type biogenesis [ *Escherichia coli* str. K-12 substr. MG1655 ]

#### Official Symbol

ccmG

#### Synonyms

ccmG; periplasmic thioredoxin of cytochrome c-type biogenesis; ccmG periplasmic thioredoxin of cytochrome c-type biogenesis; dsbE; ECK2187; JW2183; yejQ; Thiol; disulfide interchange protein dsbE

#### Gene ID

949073

#### Protein Refseq

NP\_416699

#### UniProt ID

P0AA86

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA