

## AR09034PU-L

## Recombinant E.coli DsbC (Disulfide-bond isomerase)

### Alternate names:

JW2861, Thiol:disulfide interchange protein dsbC, b2893, dsbC, xprA

### Quantity:

0.5 mg

### Concentration:

1.0 mg/ml

### Background:

Dsb proteins (DsbA, DsbB, DsbC, and DsbD) catalyze formation and isomerization of protein disulfide bonds in the periplasm of Escherichia coli. DsbC is periplasmic enzyme known as a disulfide isomerase and can convert aberrant disulfide bonds to correct ones. DsbC consists of 236 amino acids containing signal peptide (1-20 amino acids).

### Uniprot ID:

[P0AEG6](#)

### NCBI:

[CAQ33205](#)

### GeneID:

[947363](#)

### Species:

E. coli

### Source:

E. coli

### Format:

**State:** Liquid purified protein

**Purity:** >95% pure by SDS PAGE

**Buffer System:** 20 mM Tris pH 7.5 , 2 mM EDTA

### Description:

Recombinant DsbC was expressed in E. coli and purified by using conventional chromatography techniques.

#### AA Sequence:

MDDAAIQQL AKMGIKSSDI QPAPVAGMKT VLTNSGVLYI TDDGKHIIQG PMYDVSGTAP  
VNVNTKMLLK QLNALKEKMI VYKAPQEKHV ITVFTDITCG YCHKLHEQMA DYNALGITVR  
YLAFFPRQGLD SDAEKEMKAI WCAKDKNKAF DDVMAGKSVAS PASCDVDIAD HYVLGVQLGV  
SGTPAVVLSN GTLVPGYQPP KEMKEFLDEH QKMTSGK

**Molecular weight:** 23.4 kDa (216aa), confirmed by MALDI-TOF.

### Storage:

Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

### General Readings:

Peter W., et al.(2002). EMBO 21, 4774-4784.

Laura Segatori,, et al.(2004). PNAS 27, 10018-10023.

**Pictures:**

Disulfide-bond isomerase (DsbC): 15%  
SDS PAGE

