

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

Cat.NO.: TP01882

3th Edition

Synonyms:Disulfide-bond isomerase C, Thiol:disulfide interchange protein dsbC, xprA

Description: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). RecombinantDsbCwas expressed inE. coli andpurified byusing conventional chromatography techniques.

Form:Liquid. In 20 mM Hepsel buffer (pH 7.5) containing 2 mM EDTA

Molecular Weight:23.4kDa (216aa), confirmed by MALDI-TOF

Sequences:

DDAAIQQTLAKMGIKSSDIQPAPVAGMKTVLTNSGVLYITDDGKHIIQGPMYDVSGTAPVNVNKNMLLKQLNALEKE
MIVYKAPQEKHVITVFTDITCGYCHKLHEQMADYNALGITVRYLAFPRQGLDSDAEKEMKAIWCAKDKNKAFDDVM
AGKSVAPASCDVDIADHYVLGVQLGVSGTPAVVLSNGTLVPGYQPPKEMKEFLDEHQKMTSGK

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.