

California Bioscience

83103 Avenue 48, Ste.1B #204 Coachella, CA 92236 USA Phone : +1.6268339877 Email : info@cali-bio.com

Product Datasheet

Product Name	Disulfide Oxidoreductase Recombinant
Cata No	CB500455
Source	Escherichia Coli.
Synonyms	DsbA, Thiol:disulfide interchange protein dsbA.

Description

DsbA appears to be necessary for correct formulation of disulfide bonds in exported proteins *in vivo*. DsbA is useful as a standard in immunoblotting. This protein catalyses the reduction and exchange of disulfide bonds and the oxidation of free sulfhydryl groups in vitro. It is the strongest oxidant of the thioredoxin superfamily. This thio/disulfide oxidoreductase is required for efficient disulfide bond formation in the periplasm of E. coli. Disulfide Oxidoreductase produced in E.Coli is a periplasmic protein isolated from E. coli, containing 208 amino acids having a molecular mass of 23,149 Dalton.

The DsbA is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation

The protein was lyophilized after from a sterile solution containing 50mM sodium phosphate buffer and 100mM sodium chloride.

Stability

Lyophilized DsbA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution DsbA should be stored at 4°C between 2-7 days and for future use below

-18℃.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ly-Lys-Ala-Trp.

Applications

Suitable for use in Western Blot. If this protein is to be used for Western Blot analysis, we recommend that the material be diluted in 1X SDS-PAGE sample buffer (1). On a 15-well minigel system, 50ng of protein per lane should be sufficient when used in a colorimetric Western Blot with D9625 at a dilution of 1:10,000 as the primary antibody and an appropriate alkaline phosphatase conjugated secondary antibody for detection.