



# Synthelis®

## Enzyme

Protein Catalog

**DsbC - Disulfide bond isomerase**

**#S197**

### Product specification

**Acronym:** DsbC

**Synonyms:** Disulfide bond isomerase

**Origin species :** *E. coli*

**Protein reference :** P0AEG6 (UniProtKB)

**Family:** Isomerase

**Expression system:** *E. coli*

**Format:** Soluble

**Protein sequence:** Asp 21 – Lys 236

**Tag :** 8xHis tag (N-ter)

**Cleavage site:** Factor Xa

**Product MW:** 25.4 kDa

**Application:** protein folding

### Product description

DsbC is a disulfide bond isomerase interacting via its cysteines with misfolded proteins that possess non-native disulfide bonds. DsbC has chaperone activity by reforming native disulfide bonds, which stabilize the tertiary structure and correct conformation of proteins. DsbC is used to promote the production of proteins with numerous disulfide bonds or the correct folding of proteins damaged by oxidation.

### Recombinant protein sequence

**His tag – factor X cleavage site –**

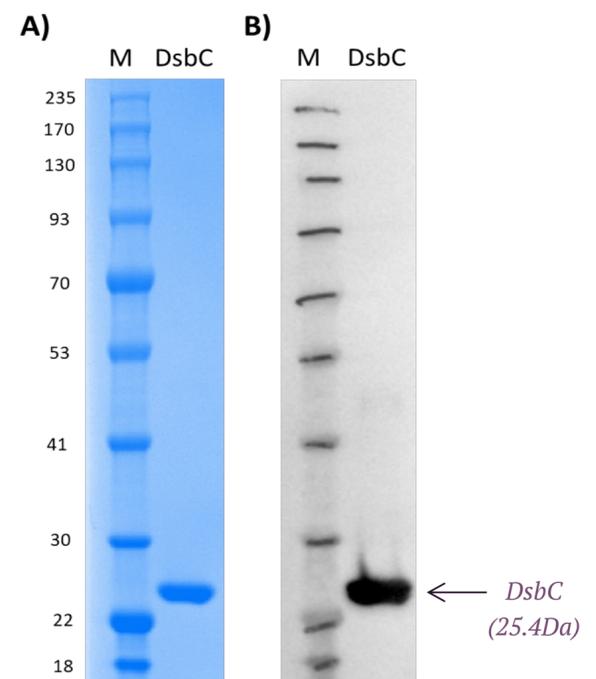
DDAAIQQTLAKMGIKSSDIQPAPVAGMKTVLTNSGVLYITDDGKHIIQGPMYDVSGTAPVNVNKNMMLLKQLNALEKEMIVYKAPQ  
EKHVITVFTDITCGYCHKLHEQMADYNALGITVRYLAFPRQGLDSDAEKEMKAIWCAKDKNKAFFDDVMAGKSVAPASCDVDIAD  
HYALGVQLGVSGTPAVVLSNGTLVPGYQPPKEMKEFLDEHQKMTSGK



## Quality analysis

**Purity:** > 97 % (determined by Coomassie-Blue stained SDS-PAGE).

**Purification procedure:** affinity purification and polishing by SEC



**Fig.1:** Disulfide bond isomerase analysis by A) Coomassie-Blue stained SDS-PAGE and B) Western Blot using an anti-6xHis antibody

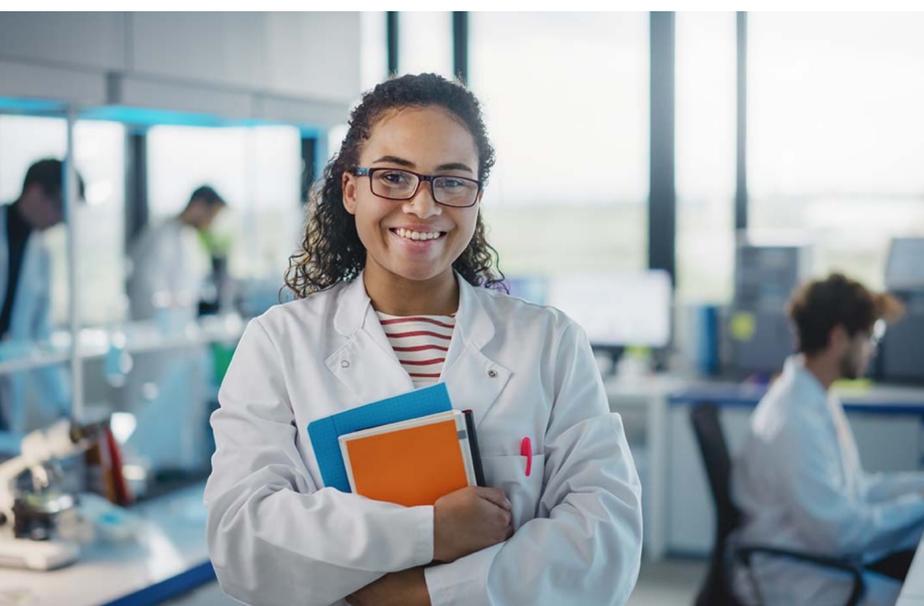
## Formulation

**Buffer:** Available in Tris 50mM EDTA 2mM pH 7.5. Other buffers or customized formulation can be provided upon request.

**Storage/Stability:** Store at -20°C for up to or longer at -80°C. Aliquot for storage.  
Do not freeze-thaw after aliquoting.

**Use restrictions:** For life science research use only.

**Available sizes:**, customized quantity on request.



Need a specific amount, a quote or any additional information?  
Contact-us



**Synthelisis**

T : +33 (0)4 76 54 95 35  
E: [contact@synthelisis.fr](mailto:contact@synthelisis.fr)  
[www.synthelisis.com](http://www.synthelisis.com)

