

***E.coli* SSB single chain binding protein**

Item No. : S6230

Specification: 500µg

Storage: -20°C storage, valid for 3 years.

Product composition:

Components	500 µg	Storage
<i>E.coli</i> SSB Protein (2µg/µL)	250 µL	- 20 °C

Product Description:

E.coli SSB single stranded binding protein is a single stranded DNA (ssDNA) binding protein that is necessary for *E.coli* DNA replication and repair. The SSB protein forms a tetramer specific collection of 8 to 16 bases, thereby protecting ssDNA from nuclease degradation. In vitro experiments show that SSB can stabilize the single-stranded region of DNA and relax the double-stranded region of DNA, thus enhancing the activity of DNA polymerase.

Product Application:

1. Improve the extension ability of DNA polymerase;
2. Increase the yield and specificity of PCR reaction;
3. Increase the yield and elongation of reverse transcription in RT-PCR;
4. And improve DNA sequencing in strong secondary structure regions.

What to watch for:

1. The molecular weight of the protein is 18.9kD.
2. The protein preservation solution contains 50% glycerol.
3. The optimal reaction temperature of the protein is 37°C, and the protein can be inactivated at 65°C for 20min.