**E. coli** Single-stranded DNA Binding Protein (SSB)

02-042 200 ug, 02-042-5 1 mg

**Shipping and Storage:** Ship at 4°C or -20°C and store at -20°C. Do not freeze.

**Applications:**
1. Functional single-stranded DNA-binding protein for studying DNA replication and recombination
2. Enhancement of the specificity and yield of PCR

**Background:** *E. coli* single-stranded DNA binding protein (SSB) binds to single-stranded DNA with high specificity (1, 2). It is involved in DNA replication and recombination *in vivo*. The SSB gene was expressed as the recombinant protein in *E. coli* highly purified. The molecular mass is 18.9 kDa.

**Form:** 2 mg/ml in 20 mM Tris-HCl (pH 7.6), 200 mM NaCl, 1 mM dithiothreitol, 1mM EDTA, 50% glycerol

**Purity:** Greater than 95% purity as determined by SDS-PAGE (CBB staining)

The absence of endonucleases and exonucleases was confirmed.

**Data Link:** UniProtKB/Swiss-Prot P0AGE0 (SSB_ECOLI)

**References:**

**Fig.1 SDS-PAGE of E.coli SSB protein**

![SDS-PAGE](image)

**Fig.2 Binding activity to single-stranded DNA**

0.02 ug/ul of M13mp18ssDNA was incubated with 0 (lane 0), 0.025 (lane 1), 0.05 (lane 2), and 0.1(lane 3) ug/ul of SSB at 37°C for 30 min. and then 10ul aliquot was subjected to electrophoresis in agarose.

**Related product:** #02-040 T4 SSB protein, #02-044 Taq SSB