

Recombinant E. coli SSB

Cat. No. Ssb-86E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E. coli Single-Stranded DNA-Binding Protein/SSB is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Phe178) of E. coli SSB.
Species	E.coli
Source	E.coli
Description	Single-Stranded DNA-Binding Protein (SSB) is an essential protein that is present in all organisms ranging from viruses to humans, except Thermoproteales. It is a homotetramer, with each monomer containing one SSB domain. SSB is involved in DNA replication, recombination, and repair. This protein is essential for the replication of the chromosomes and its single-stranded DNA phages. SSB binds to single-stranded regions of DNA to prevent premature annealing, to protect the single-stranded DNA from being digested by nucleases, and to remove secondary structure from the DNA to allow other enzymes to function effectively upon it.
Form	Lyophilized from a 0.2 μM filtered solution of PBS, pH 7.4
AA Sequence	MASRGVNKVLVGNLQDPEVRYMPNGGAVANITLATSESWRDKATGEMKEQTEW HRVVLFGKLA EVASEYLRKGSQVYIEGQLRTRKWTDQSGQDRYTTEVVVNVGGTM QMLGGRQGGGAPAGGNIGGG QPQGGWGQPQQPQGGNQFSGGAQSRPQQSAP AAPSNEPPMDFDDDIPF
Endotoxin	Less than 0.1 ng/g (1 IEU/g).

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Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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