

SSB Protein, Enterobacteria phage T7, Recombinant

General Information

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| Synonyms: | Single-stranded DNA-binding protein; Gene product 2.5 (gp2.5); SSB protein; 2.5 protein |
| Protein Construction: | 1-232 aa |
| Species: | Enterobacteria phage T7 |
| Expression Host: | P. pastoris (Yeast) |
| Accession: | P03696 |
| Molecular Weight: | 27.7 kDa (predicted) |
| AA Sequence: | MAKKIFTSALGTAEPYAYIAKPDYGNEERGFNGNPRGVYKVDLTIPNKDPRCQRMVDEIVKCHEEAYAAAVEEY EANPPAVARGKKPLKPYEGDMPFFDNGDGTTFKFKCYASFQDKKTKETKHINLVVDSKGKKMEDVPIIGG GSKLKVKYSLVPYKWNTAVGASVKLQLESVMLVELATFGGGEDDWADEVEENGYVASGSAKASKPRDEESW DEDDEESEEADEDGDF |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 90% as determined by SDS-PAGE. |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Tris-based buffer, 50% glycerol |

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Single-stranded DNA-binding protein that participates in viral DNA replication, formation of concatemers, recombination and repair of double-stranded breaks. Coats the lagging-strand ssDNA as the replication fork advances and stimulates the activities of viral DNA polymerase and primase/helicase. Coordinates simultaneous synthesis of leading- and lagging-strands. Together with DNA primase/helicase, promotes pairing of two

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homologous DNA molecules containing complementary single-stranded regions and mediates homologous DNA strand exchange. Promotes also the formation of joint molecules. Disrupts loops, hairpins and other secondary structures present on ssDNA to reduce and eliminate pausing of viral DNA polymerase at specific sites during elongation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481