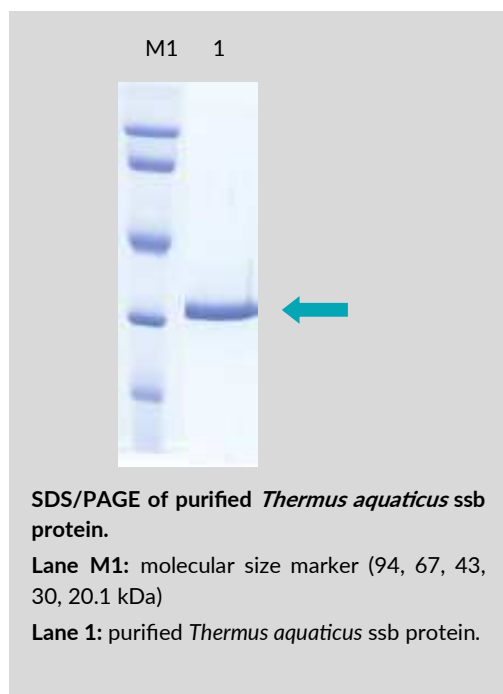


Single-stranded DNA Binding Protein

(*Thermus aquaticus*)

Cat. No.	size
E4300-01	50 µg
E4300-02	250 µg

Storage Conditions: Store at -20°C.



Thermostable single-stranded specific DNA binding protein from *Thermus aquaticus*, suitable for high temperature DNA manipulations.

Description:

- Thermostable single-stranded specific DNA binding protein (1).
- Helix destabilizing protein (1).
- Reduces formation of problematic secondary DNA structures.
- Prevents degradation of ssDNA by nucleases.
- Ultrapure recombinant protein.
- Prevents inhibition of PCR by template DNA contaminants (2).
- Improves the efficiency of DNA amplification by Taq DNA Polymerase (3, 4, 5, 6).
- Improves the specificity and selectivity of multiplex PCR (7).
- Aids PCR of difficult and GC-rich templates.
- Stabilizes single-stranded regions of DNA for site-specific mutagenesis.
- Aids completion of restriction enzyme digestion.

Storage Buffer:

10 mM Tris-HCl (pH 7.5 at 22°C), 300 mM NaCl, 5 mM β-mercaptoethanol, 0.05% Igepal, 0.1 mM EDTA and 50% (v/v) glycerol.

Quality Control:

All preparations are assayed for contaminating endonuclease, 3'- and 5' -exonuclease activities. Typical preparations are greater than 95% pure, as judged by SDS polyacrylamide gel electrophoresis.

References:

1. Greipel, J. Urbanke, C. and Maass, G. (1989) in: Saenger, W., Heinemann, U. (Eds.) pp. 61-86.
2. Kreader, C.A. (1996) *Applied Environ. Micro.* 62, 1102-1106.
3. Dąbrowski, S., Olszewski, M., Piątek, R. and Kur, J. (2002) *Protein Expr. Purif.* 26, 131-138.
4. Dąbrowski, S. and Kur, J. (1999) *Protein Expr. Purif.* 16, 96-102.
5. Rapley, Mol. Biotech. 2 (1994) 295-298.
6. Schwarz, K., Hansen-Hagge, T. and Bartram, C. (1989) *Nucleic Acids Res.* 18, 1079.
7. Barski, P., Piechowicz, L., Galinski, J. and Kur, J. (1996) *Mol. Cell Probes* 10, 471-475.

This product is developed, designed and sold exclusively for research purposes and in vitro use only.

EURx Ltd. 80-297 Gdańsk Poland ul. Przyrodników 3, NIP 957-07-05-191, KRS 0000202039
www.eurx.com.pl, orders@eurx.com.pl, tel. +48 58 524 06 97, fax +48 58 341 74 23