

Recombinant DNA Binding Protein-7 (DBP-7)

CATALOG NO:	7603-20	20 µg
	7603-100	100 µg
	7603-1000	1 mg
SOURCE:	<i>E. coli</i>	
PURITY:	>99% by SDS-PAGE Endotoxin level is <0.1 ng per µg of DBP-7.	
MOL. WEIGHT:	9.44 kDa	
FORM:	Sterile filtered and lyophilized with no additives	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in ddH₂O to a concentration of 1.0 mg/ml. Aliquot and store at -20° C for future use. Repeated freeze/thaw cycles should be avoided.

STORAGE CONDITIONS:

The lyophilized DBP-7 is best-stored desiccated below 0° C. Reconstituted protein should be stored in working aliquots at -20° C.

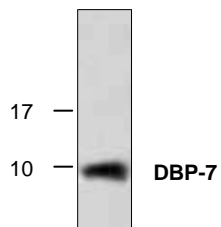
DESCRIPTION:

DNA Binding Protein-7 (DBP-7) is a N-terminal His-tagged recombinant protein and a member of the Sso7d family of small, abundant, non-specific DNA-binding proteins from the hyperthermophilic Archea *Sulfolobus*. The 7-kDa protein from *Sulfolobus* spp. consists of a five stranded, incomplete β-barrel capped at the opening by a C-terminal α-helix; they bind to the minor groove of a DNA duplex via the triple-stranded β-sheet. The topology of the *Sulfolobus* 7-kDa proteins was found to be similar to that of chromatin organization modifier (chromo) domains and eukaryotic SH3 domains, which are involved in protein-protein interactions. *In vitro* studies have shown that DBP-7 promotes the annealing of complementary DNA strands, induces negative supercoiling and chaperones the disassembly and renaturation of protein aggregates in an ATP hydrolysis-dependent manner.

PROTEIN SEQUENCE:

MGSSHHHHHHSSGLVPRGSH**M**ATVKFKYKGEEKEVDISKIKKVVWRVGMISFTYDEGGGKTGR
GAVSEKDAPKELLQMLEKQKK (Accession# P39476; Gene ID# 1454006)

Note: The bolded methionine above shows the start of DBP-7 sequence (64 aa; 84 aa with His-tag).



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Purity of recombinant DNA binding Protein -7 (2 µg) was analyzed by reduced SDS-PAGE electrophoresis,

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