

**DNA Binding Protein-7 (DBP-7), human recombinant protein**  
**DBP, DNA Binding Protein-7 (DBP-7), human recombinant**  
**Catalog # PBV11207r****Specification**

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**DNA Binding Protein-7 (DBP-7), human recombinant protein - Product info**

Primary Accession [O9P2D1](#)  
Calculated MW **9.44 kDa**

**DNA Binding Protein-7 (DBP-7), human recombinant protein - Additional Info**

Gene ID **55636**  
Gene Symbol **CHD7**  
**Other Names**  
Chromodomain-helicase-DNA-binding protein 7 (CHD-7) (EC 3.6.4.12) (ATP-dependent helicase CHD7)

Gene Source **Human**  
Source **E. coli**  
Assay&Purity **SDS-PAGE; ≥99%**  
Assay2&Purity2 **HPLC;**  
Recombinant **Yes**

**Application Notes**

Reconstitute in ddH<sub>2</sub>O to a concentration of 1.0 mg/ml. Aliquot and store at -20°C for future use. Repeated freeze/thaw cycles should be avoided.

**Format**

Lyophilized protein

**Storage**

-20°C; Sterile filtered and lyophilized with no additives

**DNA Binding Protein-7 (DBP-7), human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DNA Binding Protein-7 (DBP-7), human recombinant protein - Images****DNA Binding Protein-7 (DBP-7), human recombinant protein - Background**

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  $\beta$ -barrel capped at the opening by a C-terminal  $\alpha$ -helix; they bind to the minor groove of a DNA duplex via the triple-stranded  $\beta$ -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.

#### **DNA Binding Protein-7 (DBP-7), human recombinant protein - References**

Colin C., et al. Submitted (OCT-2009) to the EMBL/GenBank/DDBJ databases.  
Nusbaum C., et al. *Nature* 439:331-335(2006).  
Nagase T., et al. *DNA Res.* 7:65-73(2000).  
Nakajima D., et al. *DNA Res.* 9:99-106(2002).  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).