# Recombinant Human Chromodomain Helicase DNA Binding Protein 7, His-tagged

**Cat. No.** CHD7-4914H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant full length human CHD7 containing N-terminal His tag was expressed by E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | CHD7 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. |
| **Molecular Weight** | 9.44 kDa |
| **Form** | Sterile filtered and lyophilized with no additives. |
| **Appearance** | Lyophilized protein |
| **Sequence** | MGSSHHHHHHSSGLVPRGSHMATVKFKYKGEEKEVDISKIKKVWRVGKMISFTYDE GGGKTGRGAVSEKDAPKELLQMLEKQKK |
| **Endotoxin Level** | <0.1 ng/μg |

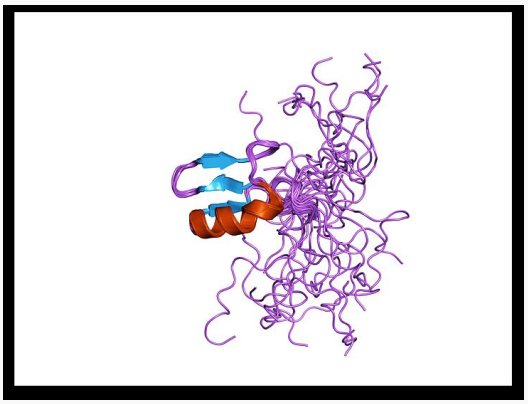
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **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. |
| **Purity** | >99% by SDS-PAGE |
| **Storage** | The lyophilized CHD7 is best-stored desiccated below 0°C. Reconstituted protein should be stored in working aliquots at -20°C. |
| **Pathways** | Noncanonical Wnt signaling pathway |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | CHD7 chromodomain helicase DNA binding protein 7 [ Homo sapiens ] |
| **Official Symbol** | CHD7 |
| **Synonyms** | CHD7; chromodomain helicase DNA binding protein 7; IS3; KAL5; FLJ20357; FLJ20361; KIAA1416; chromodomain-helicase-DNA-binding protein 7; OTTHUMP00000229376; ATP-dependent helicase CHD7; chromodomain helicase DNA binding protein 7 isoform CRA_e; EC 3.6.4.12 |
| **Gene ID** | 55636 |
| **mRNA Refseq** | NM_017780 |
| **Protein Refseq** | NP_060250 |
| **MIM** | 608892 |

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| **UniProt ID** | Q9P2D1 |
| **Chromosome Location** | 8q12.2 |
| **Function** | ATP binding; DNA binding; chromatin binding; helicase activity; hydrolase activity, acting on acid anhydrides; nucleotide binding |
| **PDB rendering based on 2ckc.** |  |

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