

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

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

## SPECIFICATION

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

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution</b> | Centrifuge the vial prior to opening. 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. |
| <b>Purity</b>         | >99% by SDS-PAGE                                                                                                                                                                                    |
| <b>Storage</b>        | The lyophilized CHD7 is best-stored desiccated below 0°C. Reconstituted protein should be stored in working aliquots at -20°C.                                                                      |
| <b>Pathways</b>       | Noncanonical Wnt signaling pathway                                                                                                                                                                  |
| <b>Full Length</b>    | Full L.                                                                                                                                                                                             |

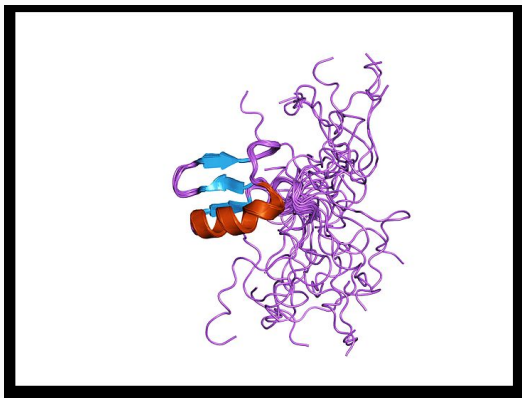
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CHD7 chromodomain helicase DNA binding protein 7 [ Homo sapiens ]                                                                                                                                                                                                |
| <b>Official Symbol</b> | CHD7                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 55636                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_017780                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_060250                                                                                                                                                                                                                                                        |
| <b>MIM</b>             | 608892                                                                                                                                                                                                                                                           |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                              |                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 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. |                                                |