# Chromodomain-Helicase-DNA-Binding Protein 5 (CHD5) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Chromodomain-helicase-DNA-binding protein 5 (CHD5), Recombinant Protein |
| **Full Product Name** | Recombinant Human Chromodomain-helicase-DNA-binding protein 5 (CHD5) , partial |
| **Product Gene Name** | CHD5 recombinant protein |
| **Product Synonym Gene Name** | CHD5 |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 223,050 Da |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 610771 |
| **3D Structure** | ModBase 3D Structure for Q8TDI0 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for CHD5 recombinant protein** | MBS1332200 is a recombinant protein targeting CHD5. Also known as Recombinant Human Chromodomain-helicase-DNA-binding protein 5 (CHD5) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of CHD5 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHD5. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 24308089 |
| **NCBI GeneID** | 26038 |
| **NCBI Accession #** | NP_056372.1 |
| **UniProt Primary Accession #** | Q8TDI0 |
| **UniProt Secondary Accession #** | O75032; Q5TG89; Q7LGH2; Q9UFR9 |
| **UniProt Related Accession #** | Q8TDI0 |
| **GenBank Nucleotide #** | NM_015557.2 |
| **NCBI Official Full Name** | chromodomain-helicase-DNA-binding protein 5 |

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| **NCBI Official Synonym Full Names** | chromodomain helicase DNA binding protein 5 |
| **NCBI Official Symbol** | CHD5 |
| **NCBI Official Synonym Symbols** | CHD-5 |
| **UniProt Protein Name** | Chromodomain-helicase-DNA-binding protein 5 |
| **UniProt Synonym Protein Names** | ATP-dependent helicase CHD5 |
| **Protein Family** | Chromodomain-helicase-DNA-binding protein |
| **UniProt Gene Name** | CHD5 |
| **UniProt Synonym Gene Names** | CHD-5 |
| **NCBI Protein Information** | chromodomain-helicase-DNA-binding protein 5 |
| **NCBI Summary for CHD5** | This gene encodes a member of the chromodomain helicase DNA-binding protein family. Members of this family are characterized by a chromodomain, a helicase ATP-binding domain and an additional functional domain. This gene encodes a neuron-specific protein that may function in chromatin remodeling and gene transcription. This gene is a potential tumor suppressor gene that may play a role in the development of neuroblastoma. [provided by RefSeq, Feb 2012] |
| **UniProt Comments for CHD5** | Chromatin-remodeling protein that binds DNA through histones and regulates gene transcription. May specifically recognize and bind trimethylated 'Lys-27' (H3K27me3) and non-methylated 'Lys-4' of histone H3. Plays a role in the development of the nervous system by activating the expression of genes promoting neuron terminal differentiation. In parallel, it may also positively regulate the trimethylation of histone H3 at 'Lys-27' thereby specifically repressing genes that promote the differentiation into non-neuronal cell lineages. Tumor suppressor, it regulates the expression of genes involved in cell proliferation and differentiation. Downstream activated genes may include CDKN2A that positively regulates the p53/TP53 pathway, which in turn, prevents cell proliferation. In spermatogenesis, it probably regulates histone hyperacetylation and the replacement of histones by transition proteins in chromatin, a crucial step in the condensation of spermatid chromatin and the production of functional spermatozoa. |
| **Research Articles on CHD5** | **1.** Data show that chromodomain helicase DNA binding protein 5 (CHD5) acted as a functional tumor suppressor and was frequently silenced by promoter CpG methylation in renal cell carcinoma (RCC). |
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