

## Recombinant Human PHD finger protein 5A, His-tagged

**Cat. No.** PHF5A-213H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PHF5A, 1-110aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 1-110 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | PHF5A is a subunit of the splicing factor 3b protein complex. Splicing factor 3b, together with splicing factor 3a and a 12S RNA unit, forms the U2 small nuclear ribonucleoproteins complex (U2 snRNP). The splicing factor 3b/3a complex binds pre-mRNA upstream of the intron's branch site in a sequence-independent manner and may anchor the U2 snRNP to the pre-mRNA. PHF5A contains a PHD-finger-like domain that is flanked by highly basic N- and C-termini. This protein belongs to the PHD-finger superfamily and may act as a chromatin-associated protein. Recombinant human PHF5A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 0.15M NaCl, 10% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 14.8kDa (133aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMAKHHPD LIFCRKQAGV AIGRLCEKCD<br>GKCVICDSYV RPCTLVRLCD ECNYGSYQGR CVICGGPGVS DAYYCKECTI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                            |                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | QEKDRDGCPK IVNLGSSKTD LFYERKKYGF KKR                                                                                                                                                                                                                                      |
| <b>Purity</b>              | >85% by SDS - PAGE                                                                                                                                                                                                                                                        |
| <b>Storage</b>             | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.                                                                                                                        |
| <b>Concentration</b>       | 0.25 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>           | PHF5A PHD finger protein 5A [ Homo sapiens ]                                                                                                                                                                                                                              |
| <b>Official Symbol</b>     | PHF5A                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | PHF5A; PHD finger protein 5A; PHD finger-like domain-containing protein 5A; bK223H9.2; INI; MGC1346; Rds3; SAP14b; SF3b14b; PHD-finger 5a; PHD finger-like domain protein 5A; splicing factor 3B associated 14 kDa protein; splicing factor 3B-associated 14 kDa protein; |
| <b>Gene ID</b>             | 84844                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | NM_032758                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_116147                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | Q7RTV0                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 22q13.2                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | Gene Expression, organism-specific biosystem; Processing of Capped Intron-                                                                                                                                                                                                |

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Containing Pre-mRNA, organism-specific biosystem; Spliceosome, organism-specific biosystem; Spliceosome, conserved biosystem; Spliceosome, U2-snRNP, organism-specific biosystem; mRNA Splicing, organism-specific biosystem; mRNA Splicing - Major Pathway, organism-specific biosystem;

**Function**

DNA binding; sequence-specific DNA binding transcription factor activity;

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