

## Recombinant Human CENPH, His-tagged

**Cat. No.** CENPH-26924TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment corresponding to amino acids 136-247 of Human CENPH with an N terminal His tag; 133 amino acids with tag, Predicted MWt 15.5 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 112 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Centromere and kinetochore proteins play a critical role in centromere structure, kinetochore formation, and sister chromatid separation. The protein encoded by this gene colocalizes with inner kinetochore plate proteins CENP-A and CENP-C in both interphase and metaphase. It localizes outside of centromeric heterochromatin, where CENP-B is localized, and inside the kinetochore corona, where CENP-E is localized during prometaphase. It is thought that this protein can bind to itself, as well as to CENP-A, CENP-B or CENP-C. Multimers of the protein localize constitutively to the inner kinetochore plate and play an important role in the organization and function of the active centromere-kinetochore complex. |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Weight</b> | 15.500kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                                 |                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>                   | >90% by SDS-PAGE                                                                                                                          |
| <b>Storage buffer</b>           | pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol                                                                                       |
| <b>Storage</b>                  | Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                           |
| <b>Sequences of amino acids</b> | MGSSHHHHHSSGLVPRGSHMLNKLIMKSQQESWDLEEKLLDIRKKRLQLKQASES<br>KLLLEIQTEKNKQKIDLDSEMSERIKIIRQNLQMEIKITTVIQHVFNLLGSKVNWAED<br>PALKEIVLQLEKNVDM |
| <b>Sequence Similarities</b>    | Belongs to the centromere protein H family.                                                                                               |

## GENE INFORMATION

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CENPH centromere protein H [ Homo sapiens ]                                                           |
| <b>Official Symbol</b> | CENPH                                                                                                 |
| <b>Synonyms</b>        | CENPH; centromere protein H; NNF1; MIND kinetochore complex component; homolog (S. cerevisiae); PMF1; |
| <b>Gene ID</b>         | 64946                                                                                                 |
| <b>mRNA Refseq</b>     | NM_022909                                                                                             |
| <b>Protein Refseq</b>  | NP_075060                                                                                             |
| <b>MIM</b>             | 605607                                                                                                |
| <b>Uniprot ID</b>      | Q9H3R5                                                                                                |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 5p15.2                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; DNA Replication, organism-specific biosystem; Deposition of New CENPA-containing Nucleosomes at the Centromere, organism-specific biosystem; M Phase, organism-specific biosystem; |
| <b>Function</b>            | kinetochore binding; protein binding;                                                                                                                                                                                                                                                     |

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