

## Recombinant Human NCL protein, His-tagged

**Cat. No.** NCL-07H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human NCL containing the C-terminal section of the human nucleolin and missing the N-terminal histone-binding part of nucleolin, fused with His tag at N-terminal was expressed in Insect cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | Nucleolin (NCL) which is a eukaryotic nucleolar phosphoprotein, involved in the synthesis and maturation of ribosomes. Nucleolin is the key nucleolar protein of growing eukaryotic cells. NCL is found linked with intranucleolar chromatin and pre-ribosomal particles. NCL induces chromatin decondensation by binding to histone H1. Nucleolin is assumed to have a role in pre-rRNA transcription and ribosome compilation. Nucleolin may also have a role in the process of transcriptional elongation. Nucleolin is located primarily in the dense fibrillar regions of the nucleolus. The Human NCL gene consists of 14 exons with 13 introns and spans approximately 11kb. |
| <b>Form</b>             | NCL is supplied in 20mM HEPES pH-7.3, 600mM NaCl, 0.3mM Tris(2-carboxyethyl)phosphine (TCEP) and 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 55,162 Dalton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | Greater than 80.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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**Storage**

Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. Avoid multiple freeze-thaw cycles.

**GENE INFORMATION**

**Gene Name** NCL nucleolin [ Homo sapiens ]

**Official Symbol** NCL

**Synonyms** NCL; nucleolin; C23; FLJ45706; FLJ59041;

**Gene ID** 4691

**mRNA Refseq** NM\_005381

**Protein Refseq** NP\_005372

**MIM** 164035

**UniProt ID** P19338

**Chromosome Location** 2q12-qter

**Pathway** Aurora B signaling, organism-specific biosystem; Pathogenic Escherichia coli infection, organism-specific biosystem; Pathogenic Escherichia coli infection, conserved biosystem; Regulation of Telomerase, organism-specific biosystem; T Cell Receptor Signaling Pathway, organism-specific biosystem; Validated targets of C-MYC transcriptional activation, organism-specific biosystem;

**Function** DNA binding; RNA binding; nucleic acid binding; nucleotide binding; protein C-

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