

## Nucleolin Protein, Human, Recombinant (His)

## General Information

Synonyms: Nucleolin;NCL;Protein C23

Protein Construction: 2-482 aa

Species: Human

Expression Host: P. pastoris (Yeast)

Accession: P19338

Molecular Weight: 54.4 kDa (predicted)

AA Sequence: VKLAKAGKNQGDPKMMAPPPKEVEEDSEDEEMSEDEEDDSSGEEVIPQKKGKAAATS AKKVVVSP TKKV AVATPAKKA AVTPGKKAATPAKKT VTPAKAVTTPGKKGATPGKALVATPGKKGAAIPAKGAKNGKNAKKE DSDEEEDDDSEDEEDDEDEDEDEDEIEPAAMKAAAAAPASEDEDEDEDEDEDDDDDEEDDSEEEAMET TPAKGGKAAKVVVPKAKNVAEDEEEDDEDEDDDDDEDEDDDDDEDEEEEEEEEEEPVKEAPGKRKKE MAKQKAPEAKKQKVEGTEPTTAFNLFVGNLNFNKSAPELKTGISDVFAKNDLAVVDVRIGMTRKFGYVDFE SAEDLEKALELTGLKVFGNEIKLEKPKGKDSKKERDARTLLAKNLPYKVTQDELKEVFEDAAEIRLVSKDGKSK GIAYIEFKTEADA EKTFEKQGTEIDGRSISLYYTGEKGQNQDYRGGKNSTWS

## QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

## Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

## A DRUG SCREENING EXPERT

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Nucleolin is the major nucleolar protein of growing eukaryotic cells. It is found associated with intranucleolar chromatin and pre-ribosomal particles. It induces chromatin decondensation by binding to histone H1. It is thought to play a role in pre-rRNA transcription and ribosome assembly. May play a role in the process of transcriptional elongation. Binds RNA oligonucleotides with 5'-UUAGGG-3' repeats more tightly than the telomeric single-stranded DNA 5'-TTAGGG-3' repeats.

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