

Recombinant Human NUCL Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50745

Size: 10ug, 100ug

Protein Name: Nucleolin (Protein C23)

Synonym: NCL

UniProt ID: P19338

UniProt Link: www.uniprot.org/uniprotkb/P19338/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 710 AA

Molecular Weight: 77 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MVKLAKAGKNQGDPKKMAPPPKEVEEDSEDEEMSEDEEDDSSGEEVIPQKKGKAAATSAKKVV
VSPTKKVAVATPAKKAATVPGKKAAATPAKKTVPKAVTTPGKKGATPGKALVATPGKKGAIPAK
GAKNGKNAKKEDSDEEEDDDSEDEEDDEDEDEDEDEIEPAAMKAAAAAPASEDEDEDEDEDED
DDDDEEDDSEEEAMETTPAKGKKAAPVVPKAKNVAEDEDEEEDDEDEDDDDDEDEDEDDDDDED
EEEEEEEEEEPVKEAPGKRKKEMAKQKAAPKQKVEGTEPTTAFNLFVGNLNFNKSAPELKTGIS
DVFAKNDLAVVDVRIGMTRKFGYVDFESAEDLEKALELTGLKVFGNEIKLEKPKGKDSKKERDARTLL
AKNLPHYVTQDELKEVFEDAAEIRLVSKDGKSGIAYIEFKTEADAETFEKQGTIDGRSISLYYTG
EKGQNQDYRGKKNSTWSGESKTLVLSNLSYSATEETLQEVFEKATFIKVPQNQNGKSKGYAFIEFA
SFEDAKEALNSCNKREIEGRAIRLELQGPRGSPNARSQPSKTLFVKGLSEDTTEETLKESTFDGVSRA
RIVTDRETGSSKGFVDFNSEEDAKAAKEAMEDGEIDGNKVTLDWAKPKGEGGFGRGGGRGGF
GGRGGGRGGRGFGGRGRGGFGGRGGFRGGRGGGGDHKPKQGKKTKE

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Nucleolin (Protein C23) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: 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.

Subcellular Localization: Nucleus, nucleolus . Cytoplasm. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.