

Product Data Sheet

NCL Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71760
Synonyms:	C23; FLJ45706; MS1116 ; NCL; Nucl; Nucleolin; Protein C23
Species:	Human
Source:	P. pastoris
Accession:	P19338 (V2-S482)
Gene ID:	4691
Molecular Weight:	Approximately 72 kDa.The reducing (R) protein migrates as 72 kDa in SDS-PAGE maybe due to post-translational modification.

PROPERTIES

AA Sequence	VKLAKAGKNQ GDPKKMAPPP KEVEEDSEDE EMSEDEEDDS
	SGEEVVIPQK KGKKAAATSA KKVVVSPTKK VAVATPAKKA
	AVTPGKKAAA TPAKKTVTPA KAVTTPGKKG ATPGKALVAT
	PGKKGAAIPA KGAKNGKNAK KEDSDEEEDD DSEEDEEDDE
	DEDEDEIE PAAMKAAAAA PASEDEDDED DEDDEDDDD
	EEDDSEEEAM ETTPAKGKKA AKVVPVKAKN VAEDEDEEED
	DEDEDDDDE DDEDDDEDD EEEEEEEE PVKEAPGKRK
	KEMAKQKAAP EAKKQKVEGT EPTTAFNLFV GNLNFNKSAP
	ELKTGISDVF AKNDLAVVDV RIGMTRKFGY VDFESAEDLE
	KALELTGLKV FGNEIKLEKP KGKDSKKERD ARTLLAKNLP
	YKVTQDELKE VFEDAAEIRL VSKDGKSKGI AYIEFKTEAD
	AEKTFEEKQG TEIDGRSISL YYTGEKGQNQ DYRGGKNSTW
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Appearance	Lyophilized powder
Formulation	Lyanhilized from a 0.2 ym starila filtared DPS 6% Trahalasa, pH 7.4 ar 20 mM Tris HCL 0.5 M NaCL 6% Trahalasa, pH 9.0
Formulation	Lyophilized form a 0.2 μ m sterile intered PDS, 6% menalose, pr 7.4 or 20 million mis-ricl, 0.5 M Nacl, 6% menalose, pr 8.0
Endotoxin Level	<1 FU/ug determined by I AL method
Endotoxin Level	<pre><i by="" determined="" l0="" lal="" method.<="" pre="" µg,=""></i></pre>
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is
, and the second s	recommended to freeze alignots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US: may vary elsewhere.

DESCRIPTION

Background

Nucleolin (NCL) serves as the major nucleolar protein in actively growing eukaryotic cells, associating with intranucleolar chromatin and pre-ribosomal particles. Its involvement in inducing chromatin decondensation is facilitated by binding to histone H1. Nucleolin is implicated in pre-rRNA transcription, ribosome assembly, and potentially plays a role in transcriptional elongation. It exhibits a higher affinity for RNA oligonucleotides containing 5'-UUAGGG-3' repeats compared to telomeric single-stranded DNA with 5'-TTAGGG-3' repeats. Additionally, NCL is identified in an IGF2BP1-dependent mRNP granule complex. It is part of the SWAP complex and a larger complex involving HTATSF1, CDK9, CCNT1, RNA polymerase II, SUPT5H, and Nucleolin. NCL engages in diverse interactions with proteins such as AICDA, APTX, C1QBP, ERBB4, FMR1, GZF1, NSUN2, NVL, SETX, TERT, WDR46, ZFP36, LRRC34, RRP1B, HNRNPU, RIOK1, ZBTB7B, MDK, and HDGF, highlighting its multifaceted roles in various cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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